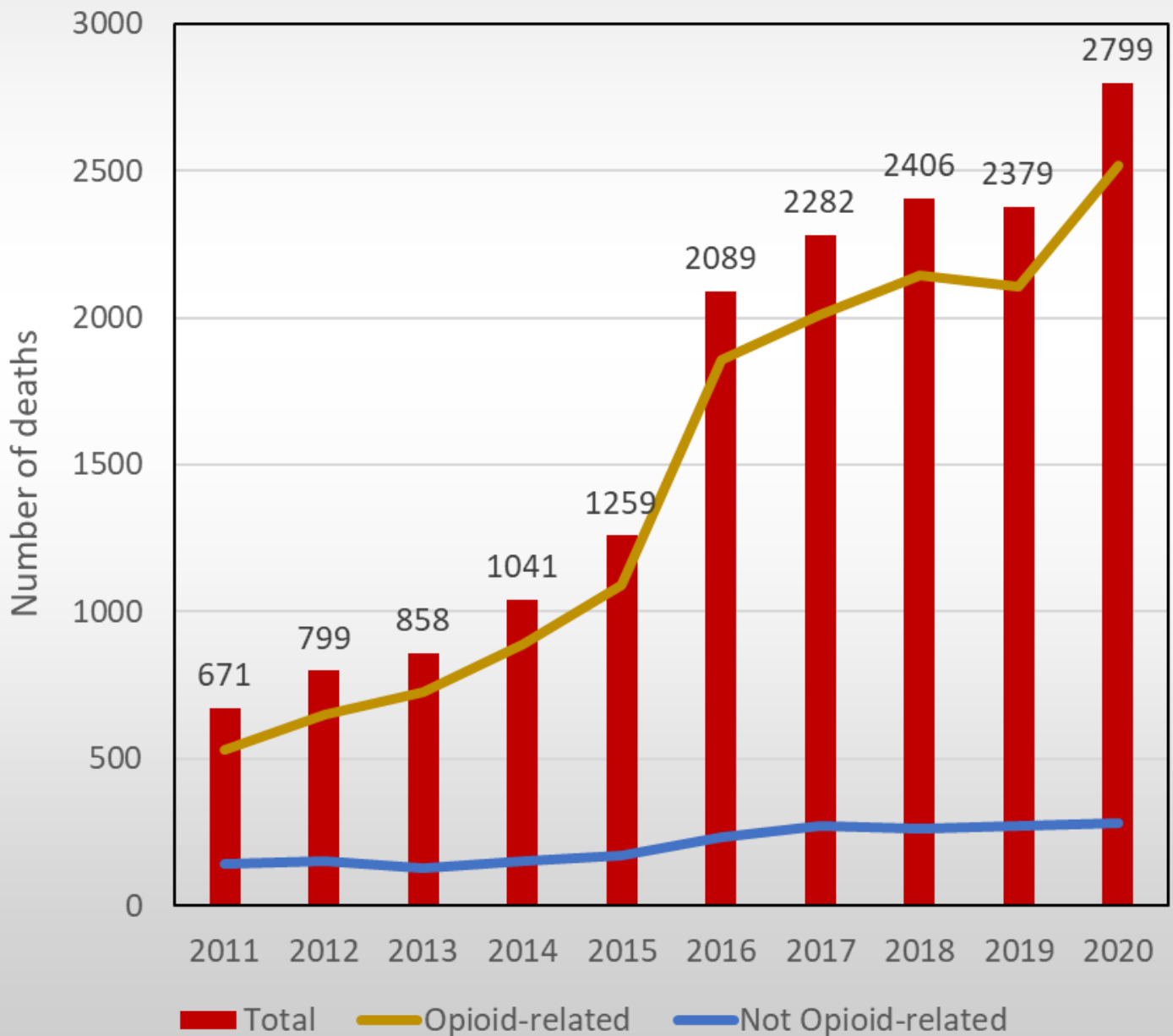




# Unintentional Drug- and Alcohol-Related Intoxication Deaths in Maryland, 2020



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## **METHODS**

### **Introduction**

The purpose of this report is to describe trends in the number of unintentional drug- and alcohol-related intoxication deaths occurring in Maryland during the period 2011-2020. Trends are examined by age at time of death, race/ethnicity, gender, place of death, and substances related to death.

This report was prepared using drug and alcohol intoxication data housed in a registry developed and maintained by the Vital Statistics Administration (VSA) of the Maryland Department of Health (MDH). The methodology for reporting on drug-related intoxication deaths in Maryland was developed by VSA with assistance from the MDH Behavioral Health Administration, the Office of the Chief Medical Examiner (OCME) and the Maryland Poison Control Center. Assistance was also provided by authors of a Baltimore City Health Department report on intoxication deaths.<sup>1</sup>

### **Sources of data**

The data included in this report were obtained mainly from the OCME. Maryland law requires the OCME to investigate all drug deaths occurring in the State, as well as non-natural and unattended deaths. In these instances, information compiled during an investigation is used to determine the cause or causes of death. Depending on the circumstances, an investigation may involve a combination of scene examination, review of witness reports, review of medical and police reports, autopsy, and toxicological analysis of autopsy specimens. Toxicological analysis is routinely performed when there is suspicion that a death was the result of drug or alcohol intoxication.

A small number of death records involving intoxication deaths were filed by sources other than OCME and were identified through death records maintained by VSA. This included records filed by medical facilities rather than OCME, and records filed by federal investigators following deaths involving U.S. military personnel. Information available on these cases was included in the registry.

Information on place of death and race/ethnicity was missing for a small number of records provided by OCME and was obtained through death certificate data. Death certificate data were also used to update demographic information on records that were amended after the records were filed with the Division of Vital Records.

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<sup>1</sup> Office of Epidemiology and Planning, Baltimore City Health Department. Intoxication Deaths Associated with Drugs of Abuse or Alcohol. Baltimore City, Maryland: Baltimore City Health Department. January 2007.

## **Identification of drug-related intoxication deaths**

For the purpose of this report, an intoxication death was defined as a death that was the result of recent ingestion or exposure to alcohol or another type of drug, including heroin, fentanyl, cocaine, prescription opioids, benzodiazepines, phencyclidine (PCP), methamphetamines, and other prescribed and unprescribed drugs. OCME provided all records to VSA for which the text of the cause of death included one or more of the following terms: poisoning, intoxication, toxicity, inhalation, ingestion, overdose, exposure, chemical, effects, or use. Any records provided by OCME that were not unintentional drug-related intoxication deaths, such as deaths due to smoke inhalation, carbon monoxide intoxication, cold exposure, and chronic use of alcohol or other drugs, were excluded in the registry. Also excluded from the registry were deaths for which the manner of death was determined to be natural, suicide, or homicide.

## **Analyses**

Trends in the number of unintentional drug- and alcohol-related intoxication deaths occurring in Maryland during the years 2011-2020 were analyzed by age group, race/ethnicity, gender, place of occurrence of death, and substances related to the death. Changes over time were examined for deaths related to the following substances:

1. Opioids
  - a. Heroin
  - b. Prescription opioids
  - c. Fentanyl (prescribed and illicit)
2. Cocaine
3. Benzodiazepines and related drugs
4. Phencyclidine
5. Methamphetamine
6. Alcohol

The number of deaths by place of occurrence was computed by jurisdiction and by region, categorized as follows:

<b>Northwest Area</b>	<b>Baltimore Metro Area</b>	<b>National Capital Area</b>	<b>Southern Area</b>	<b>Eastern Shore Area</b>
Garrett Co. Allegany Co. Washington Co. Frederick Co.	Baltimore City Baltimore Co. Anne Arundel Co. Carroll Co. Howard Co. Harford Co.	Montgomery Co. Prince George's Co.	Calvert Co. Charles Co. St. Mary's Co.	Cecil Co. Kent Co. Queen Anne's Co. Caroline Co. Talbot Co. Dorchester Co. Wicomico Co. Somerset Co. Worcester Co.

Trends in deaths for the period 2011-2020 are shown in Figures 1 through 42. Data on intoxication deaths related to a combination of substances are shown in Figures 43 through 49. Counts of the number of total deaths and deaths related to classes of substances or specific substances by place of occurrence are shown in Tables 1 through 12.

### **Age-adjusted death rates**

Age-adjusted death rates by place of residence are shown in Figure 50. Age-adjusted death rates were calculated in order to allow for the comparison of drug death rates among Maryland jurisdictions. Unlike all other data included in this report, these rates are based on place of residence of the decedent rather than place where the drug-related incident occurred. Since out-of-state data are generally not available until approximately six months after the close of a calendar year, only data through 2019 were available at the time this report was prepared. Therefore, age-adjusted rates cover the period 2017 through 2019. Since the number of drug deaths is relatively small in many Maryland jurisdictions, it was necessary to calculate rates for a three year period in order to obtain counts that were large enough to be used to calculate stable rates.

Drug death information received from other states is far less detailed than the data available from OCME and often does not include information on the substances involved in a death. For that reason, rates could only be calculated for total deaths and not deaths related to individual substances.

**\*\*Since an intoxication death may involve more than one substance, counts of deaths related to specific substances do not sum to the total number of deaths in this report.\*\***

### **Opioid-related deaths**

Opioids include heroin and prescription opioid drugs such as oxycodone, hydrocodone, hydromorphone, methadone, tramadol and codeine, and prescribed and illicit fentanyl. In this report, an opioid was considered to be associated with a death if a specific opioid drug was indicated in the cause of death. If the cause of death did not identify a specific drug (e.g., the cause of death indicated “Narcotic Intoxication”), OCME toxicology results were reviewed to determine whether the presence of any opioid drug was detected. If so, the cause of death was considered to be opioid-related, regardless of the level of the drug. Scene investigation notes were also reviewed in an attempt to better categorize death records with non-specific causes of death.

Since heroin is rapidly metabolized into morphine, the records of many deaths that are likely to be heroin-related do not list “heroin” as a cause of death, and therefore cannot be identified using only information listed in the cause of death. Therefore, a combination of information contained in the cause of death field, toxicology results, and scene investigation

notes is used to identify heroin-related deaths. In this report, a death was considered to be heroin-related if:

1. "Heroin" was mentioned in the cause of death; or
2. The toxicology screen showed a positive result for 6-monacetylmorphine; or
3. The toxicology screen showed positive results for both morphine and quinine; or
4. The cause of death was nonspecific and the scene investigation notes indicated that heroin was likely to have been involved in the death; or
5. The death was associated with morphine through either cause of death information or toxicology results, unless information contained in the investigation notes did not support this assumption.

A record was not coded as heroin-related, despite the presence of morphine, if OCME determined that another substance caused the death.

Prescription opioid-related deaths were defined as deaths that involve one or more prescription opioids, as identified through cause of death information when a specific drug was indicated and through toxicology results when the cause of death was nonspecific. Prescription opioids include buprenorphine, codeine, hydrocodone, hydromorphone, meperidine, methadone, morphine, oxycodone, pentazocine, propoxyphene, tramadol and prescribed fentanyl. Prescribed fentanyl is an opioid analgesic approved for patient use to manage severe or chronic pain. There are also forms of fentanyl that are produced illicitly in clandestine laboratories and mixed with (or substituted for) heroin or other illicit drugs. Although in some cases it was difficult to determine whether a prescribed or illicit form of fentanyl was related to a death, the count of prescription opioid-related drugs in this report includes only fentanyl deaths in which a prescription form of the drug was clearly involved.

Fentanyl-related deaths began increasing in late 2013 as a result of overdoses involving nonpharmaceutical fentanyl, that is, nonprescription fentanyl produced in clandestine laboratories and mixed with, or substituted for, heroin or other illicit substances. Nearly all fentanyl-related deaths occurring in recent years have involved the use of nonpharmaceutical fentanyl. Fentanyl is many times more potent than heroin, and greatly increases the risk of an overdose death. Carfentanil, an extremely potent analog of fentanyl, was first detected in Maryland drug intoxication death cases in 2017, and is reported separately in Figures 21 and 22.

### **Cocaine-related deaths**

Cocaine is a highly addictive stimulant drug derived from coca leaves. It is frequently mixed with other non-psychoactive substances, such as cornstarch or talcum powder, to dilute its potency, however in the last few years, it has been mixed with fentanyl.

### **Benzodiazepine-related deaths**

Benzodiazepines are a class of depressants that include drugs such as alprazolam, clonazepam, diazepam, and multiple related drugs. The category of benzodiazepine-related drugs in this report includes both benzodiazepines and related drugs, such as zolpidem, which have similar sedative effects.

### **Phencyclidine-related deaths**

Phencyclidine, or phenylcyclohexyl piperidine (PCP), is an illicit hallucinogenic drug that can induce acute psychosis and aggressive behaviors. In the last few years it has been mixed with fentanyl.

### **Methamphetamine-related deaths**

Methamphetamine is another highly addictive stimulant drug. Illicit forms of methamphetamine have also been found to be mixed with fentanyl or other opioids.

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## SUMMARY OF TRENDS IN DRUG INTOXICATION DEATHS — 2011 TO 2020

### Total drug and alcohol intoxication deaths

- The number of drug- and alcohol-related intoxication deaths occurring in Maryland increased in 2020, after a slight decrease seen in 2019. The total number of deaths in 2020 was 2,799, which represented an 18% increase from the number of deaths (2,379) in 2019.
- Between the years 2011 through 2016, intoxication deaths increased among all age groups, and were highest among those aged 45-54 years old. The number of deaths among those aged <25 years and those 25-34 started to decline through 2019. In 2020, the older age groups saw the steepest increases in deaths, with those aged 55 years and older having the highest number of deaths each year since 2018. Between 2019 and 2020, deaths increased among those aged 45-54 years by 23% and increased by 20% among those aged 55 years and over.
- The number of deaths among non-Hispanic Whites decreased in 2019 but increased in 2020 by 16%. Deaths have increased steadily among non-Hispanic Blacks since 2012, and increased 16% between 2019 and 2020. Among Hispanics, deaths increased from 75 in 2019 to 126 in 2020.
- Deaths increased by 17% among men between 2019 and 2020, after slight decrease between 2018 and 2019. Deaths among women increased 19% between 2019 and 2020 after a three-year plateau. Intoxication deaths were 2.6 times higher among men than women in 2020.
- Two counties had no change in the number of deaths occurring between 2019 and 2020: St. Mary's and Frederick. Although there were decreases in the number of deaths occurring in five jurisdictions of the state between 2019 and 2020: Calvert, Carroll, Garrett, Harford, and Kent, the remainder saw increases: Allegany, Anne Arundel, Baltimore City, Baltimore County, Caroline, Cecil, Charles, Dorchester, Howard, Montgomery, Prince George's, Queen Anne's, Somerset, Talbot, Washington, Wicomico, and Worcester.

### Opioid-related deaths

- Ninety percent of all intoxication deaths that occurred in Maryland in 2020 were **opioid**-related. **Opioid**-related deaths include deaths related to **heroin**, **prescription opioids**, and nonpharmaceutical **fentanyl**.
- The number of **opioid**-related deaths increased by 20% between 2019 and 2020, following a 2% decrease the previous year. Non opioid-related drug deaths increased slightly in 2020.
- **Fentanyl**-related deaths continued to drive opioid-related deaths. Between 2019 and 2020 the number of **fentanyl**-related deaths increased by 22% (from 1927 to 2342). The number of **heroin**-related deaths declined for the fourth straight year, decreasing by 55% between 2016 and 2020 to 548 deaths. The number of **prescription opioid**-related deaths increased by 23% between 2019 and 2020, following a three-year decrease.

## Fentanyl

- **Fentanyl**-related deaths have increased rapidly since 2013, with a 229% increase between 2015 and 2016. Deaths related to **fentanyl** increased sharply again in 2020, rising 22% to a 10 year high of 2,342 deaths.
- In 2020, **Fentanyl**-related deaths rose among all age groups, with the highest increases among those 25-34 years (25%) and among those 55 and older (28%).
- **Fentanyl**-related deaths increased among non-Hispanic Whites (19%) and non-Hispanic Blacks (20%) between 2019 and 2020. The number of deaths among Hispanics nearly doubled, increasing 96% from 2019.
- **Fentanyl**-related deaths increased by 20% among men and by 26% among women in 2020.
- In 2020, **fentanyl** deaths increased in 18 jurisdictions, declined in 4 jurisdictions, and remained the same in 2 jurisdictions.
- Thirty-six percent of **fentanyl**-related deaths in 2020 occurred in combination with cocaine, 22% in combination with **heroin**, 18% in combination with **alcohol**, and 13% in combination with **prescription opioids**.
- Deaths related to **carfentanil** (a **fentanyl** analog) were first identified in 2017 (testing began in 2016). There were 60 **carfentanil**-related deaths in 2017, however this number dropped to 2 deaths in 2018 and 2019. There were no carfentanil deaths in 2020.

## Heroin

- **Heroin**-related deaths continued to decrease in 2020, declining by 25% since 2019.
- There was a decrease in **Heroin**-related deaths in 2020 among all age groups.
- Deaths among both sexes continued to decline for the fourth consecutive year, falling 24% among men and 26% among women.
- **Heroin**-related deaths declined among non-Hispanic Whites (27%), non-Hispanic Blacks (21%) and Hispanics (20%) in 2020.
- In 2019, **heroin** deaths declined in 16 jurisdictions, remained the same in 3 jurisdictions, and increased in 5 jurisdictions.
- Ninety-four percent of **heroin**-related deaths in 2020 occurred in combination with **fentanyl**, 38% in combination with **cocaine**, 19% in combination with **prescription opioids**, and 12% in combination with **alcohol**.

## Prescription Opioids

- The number of **prescription opioid**-related deaths had been rising since 2013, but started to decline 2017. After a three-year decrease, deaths increased sharply in 2020 rising by 23% compared with 2019.
- In 2020, the number of **prescription opioid**-related deaths rose in all age groups.
- **Prescription opioid**-related deaths increased among non-Hispanic Whites (18%), non-Hispanic Blacks (31%) from 2019 to 2020. The number of deaths nearly tripled for Hispanics.
- Deaths related to **prescription opioids** increased by 20% among men and by 28% among women in 2020.

### Cocaine-related deaths

- The number of **cocaine**-related deaths increased 6% in 2020 following a 2% decline in 2019.
- **Cocaine**-related deaths increased in 2020 among those 25-34 years (12%), those 45-54 (3%), and those 55 years and older (18%), but decreased among those under 25 (9%) and those 35-44 years (6%).
- **Cocaine**-related deaths increased by 6% among non-Hispanic Whites and 4% among non-Hispanic Blacks in 2020. There was a 59% increase among Hispanics.
- **Cocaine**-related deaths among women increased by 20% in 2020, while the number of deaths among men was similar to 2019.
- The overall increase in **cocaine**-related deaths is largely the result of deaths occurring in combination with opioids. Ninety-one percent of **cocaine**-related deaths in 2020 occurred in combination with **fentanyl**, and 23% in combination with **heroin**.

### Benzodiazepine-related deaths

- The number of **benzodiazepine**-related deaths increased by 7% between 2019 and 2020, reversing a two-year decline.
- **Benzodiazepine**-related deaths rose in 2020 among those aged under 25 years (60%), those 35-44 years (27%), and those 45-54 years (47%). Deaths decreased among those aged 25-34 years (23%) and those 55 years and over (26%).
- Deaths increased among non-Hispanic Whites by 11% in 2020, but remained stable among non-Hispanic Blacks and Hispanics.
- A thirteen percent increase was seen among men, while deaths remained stable among women in 2020.
- Ninety-two percent of **benzodiazepine**-related deaths in 2020 were in combination with **opioids**. Seventy-one percent of all **benzodiazepine**-related deaths occurred in combination with **fentanyl**, 38% in combination with **prescription opioids**, and 24% in combination with **heroin**.

### Phencyclidine-related deaths (PCP)

- The number of **phencyclidine**-related deaths has been rising since 2018. These deaths increased by 29% between 2019 and 2020.
- **Phencyclidine**-related deaths increased among all age groups between 2019 and 2020 except those under 25 years, who had no deaths in 2020.
- Deaths increased among non-Hispanic Blacks (55%) and decreased 20% in non-Hispanic Whites between 2019 and 2020. After three years of no deaths among Hispanics, there were four deaths in 2020.
- Deaths increased by 30% among men in 2020, and increased by 29% among women.
- Seventy-six percent of **phencyclidine**-related deaths in 2020 were in combination with **opioids**.
- The number of **phencyclidine**-related deaths occurring in Prince George's County was three times higher than the next highest jurisdiction.

### Methamphetamine-related deaths

- The number of **methamphetamine**-related deaths has been rising since 2015. These deaths increased by 85% between 2019 and 2020.
- **Methamphetamine**-related deaths increased among all age groups.
- Deaths increased among non-Hispanic Whites (75%) and non-Hispanic Blacks (138%). There was one death among Hispanics, the first death since 2015.
- Deaths increased among both sexes, 90% among males and 70% among females.
- Eighty-three percent of **methamphetamine**-related deaths in 2020 were in combination with **opioids**. Eighty percent of all **methamphetamine**-related deaths occurred in combination with **fentanyl**, 16% in combination with **heroin**, and 11% in combination with **prescription opioids**. Twenty-four percent of **methamphetamine**-related deaths occurred in combination with **cocaine**.
- The number of **methamphetamine**-related deaths occurring in Cecil County was twice as high as the next highest jurisdiction.

### Alcohol-related deaths

- The number of **alcohol**-related deaths had declined steadily since 2017. However, deaths sharply increased by 34% between 2019 and 2020.
- **Alcohol**-related deaths in 2020 rose in every age group.
- Deaths increased in 2020 by 41% among non-Hispanic Whites, by 19% among non-Hispanic Blacks, and by 57% among Hispanics.
- Deaths increased in 2020 among both men and women, 34% among males and 33% among females.
- Eighty-one percent of acute **alcohol**-related deaths in 2020 occurred in combination with opioids. Seventy-five percent occurred in combination with **fentanyl**, 27% occurred in combination with **cocaine**, and 11% occurred in combination with **heroin**.

### Age-adjusted death rates

- Age-adjusted death rates for the period 2017-2019 ranged from lows of 9.7 and 11.7 per 100,000 population in Montgomery and Prince George's Counties, respectively, to a high of 95.5 per 100,000 population in Baltimore City. The Maryland state age-adjusted mortality rate for deaths related to unintentional drug and alcohol-related intoxication was 33.5 deaths per 100,000 population over the three-year period.

**TOTAL INTOXICATION DEATHS**

Figure 1. Total Number of Drug- and Alcohol-Related Intoxication Deaths Occurring in Maryland, 2011-2020.

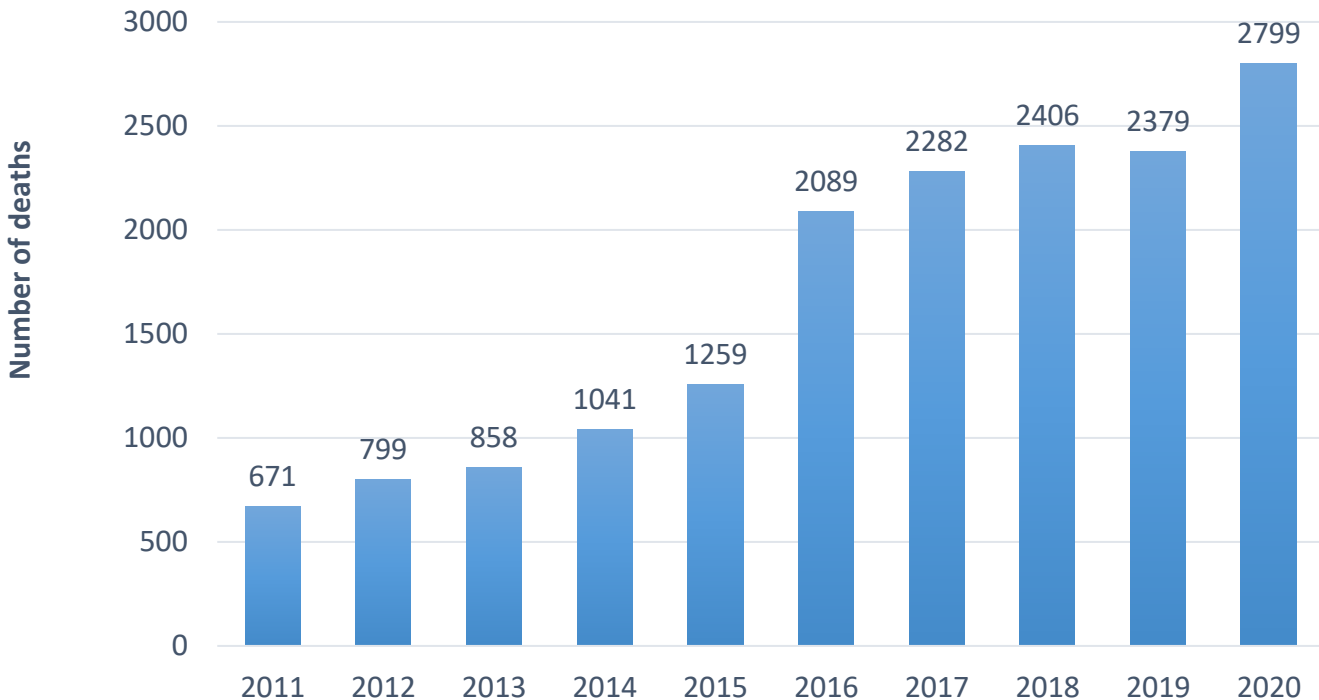


Figure 2. Total Number of Intoxication Deaths Occurring in Maryland by Place of Occurrence, 2020.

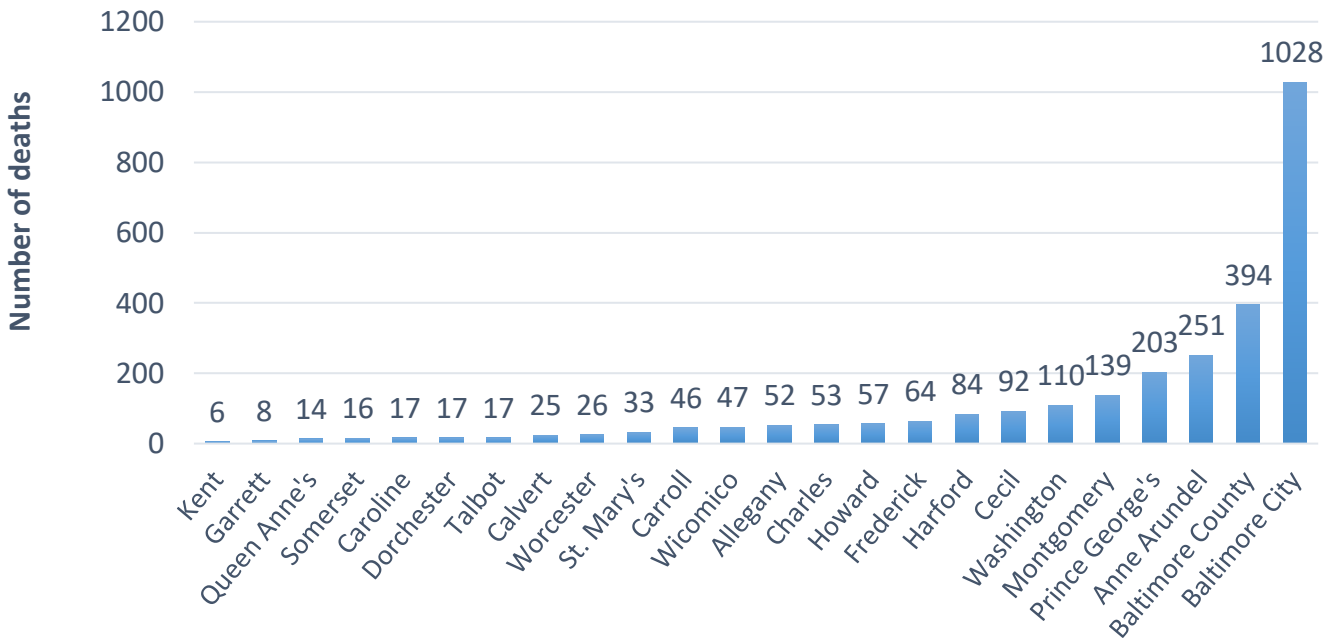


Figure 3. Total Number of Drug- and Alcohol-Related Intoxication Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

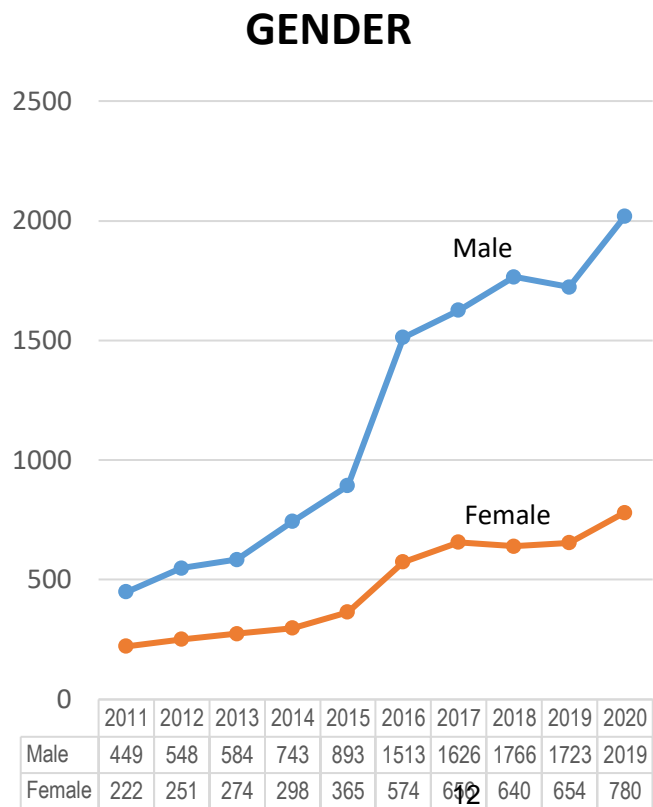
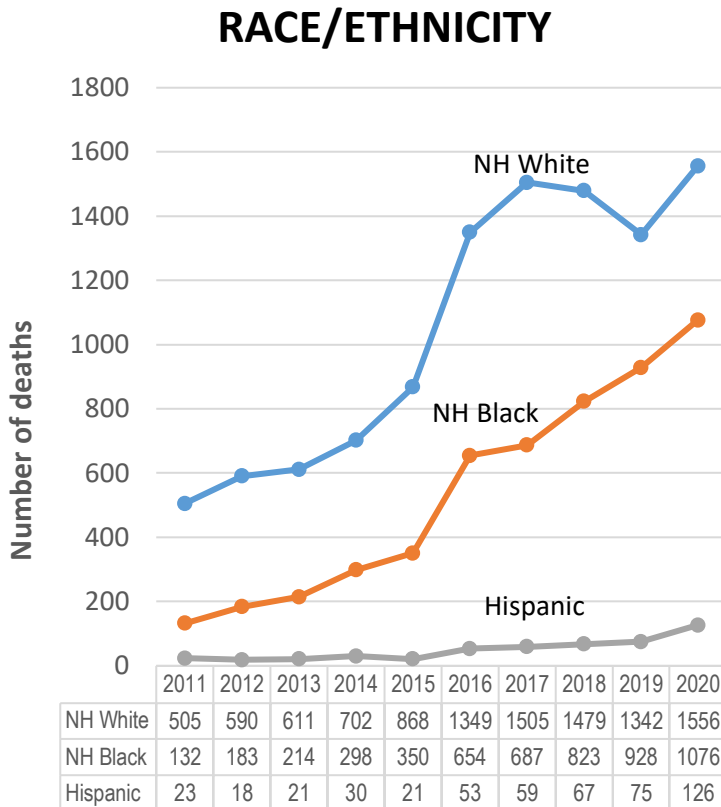
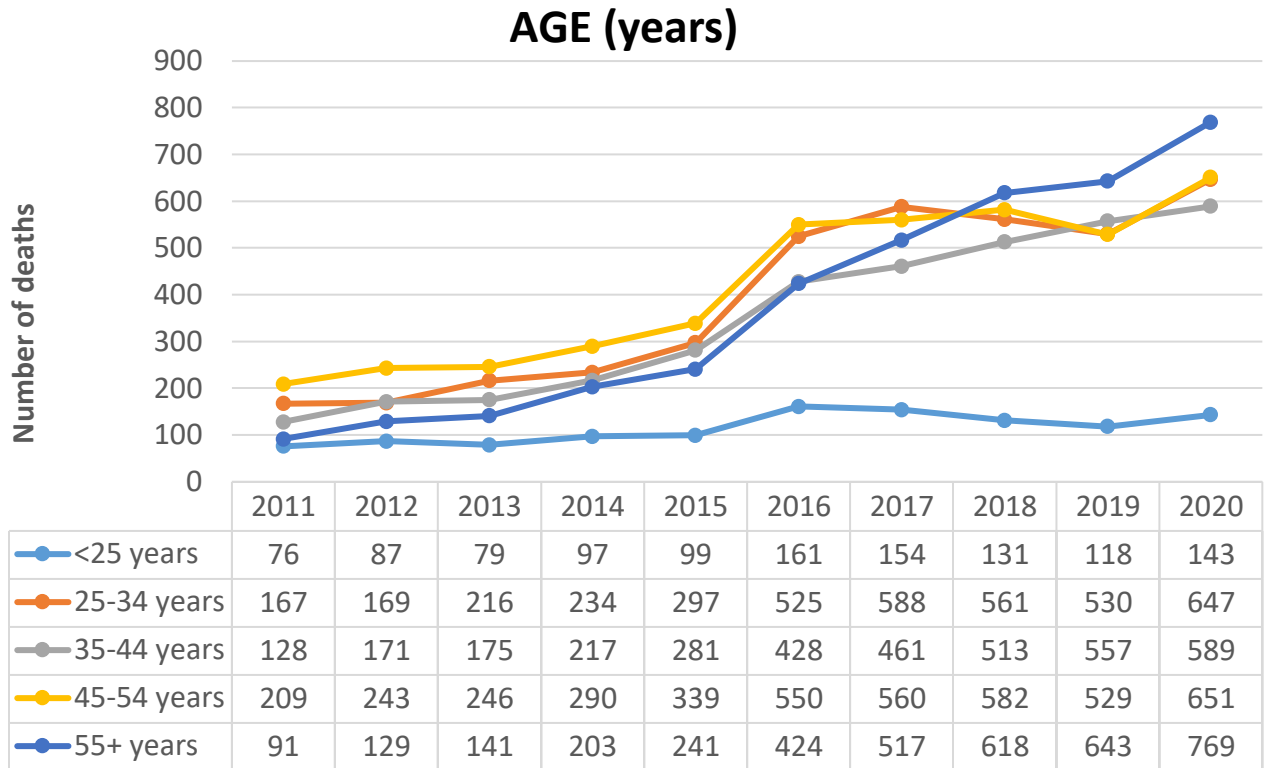
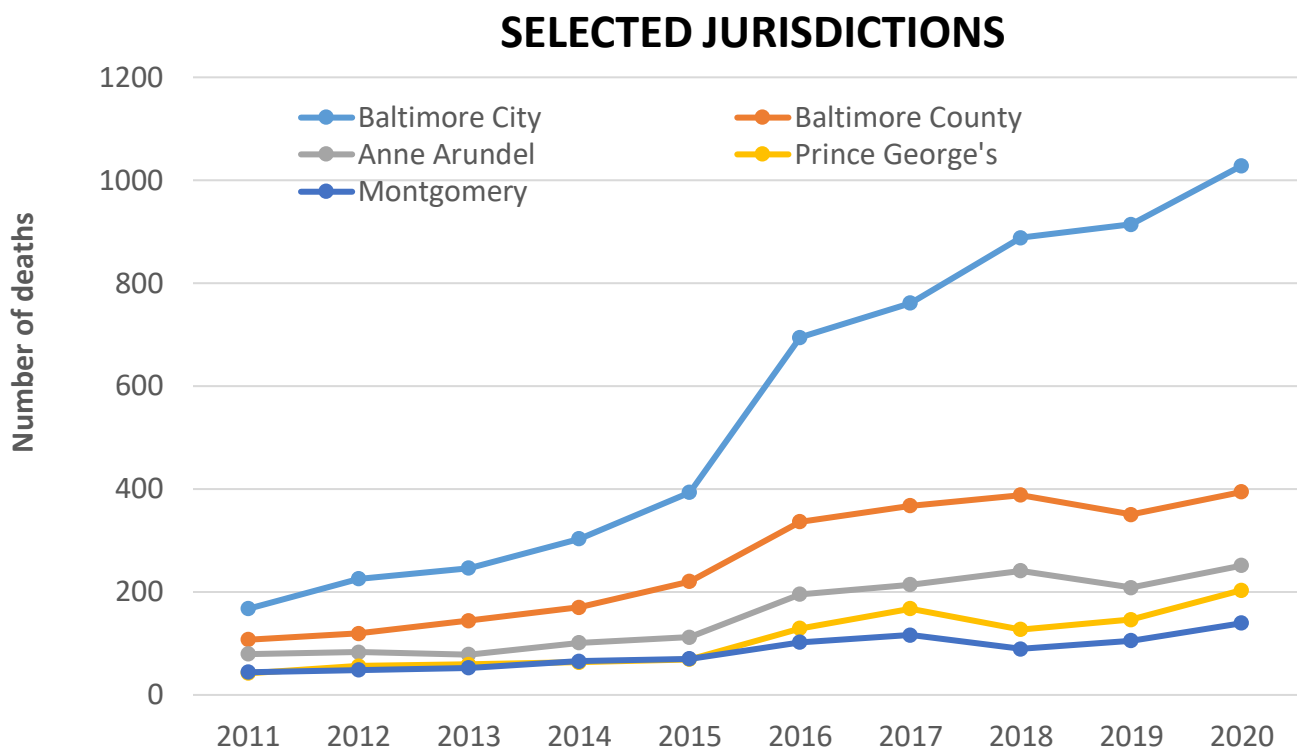
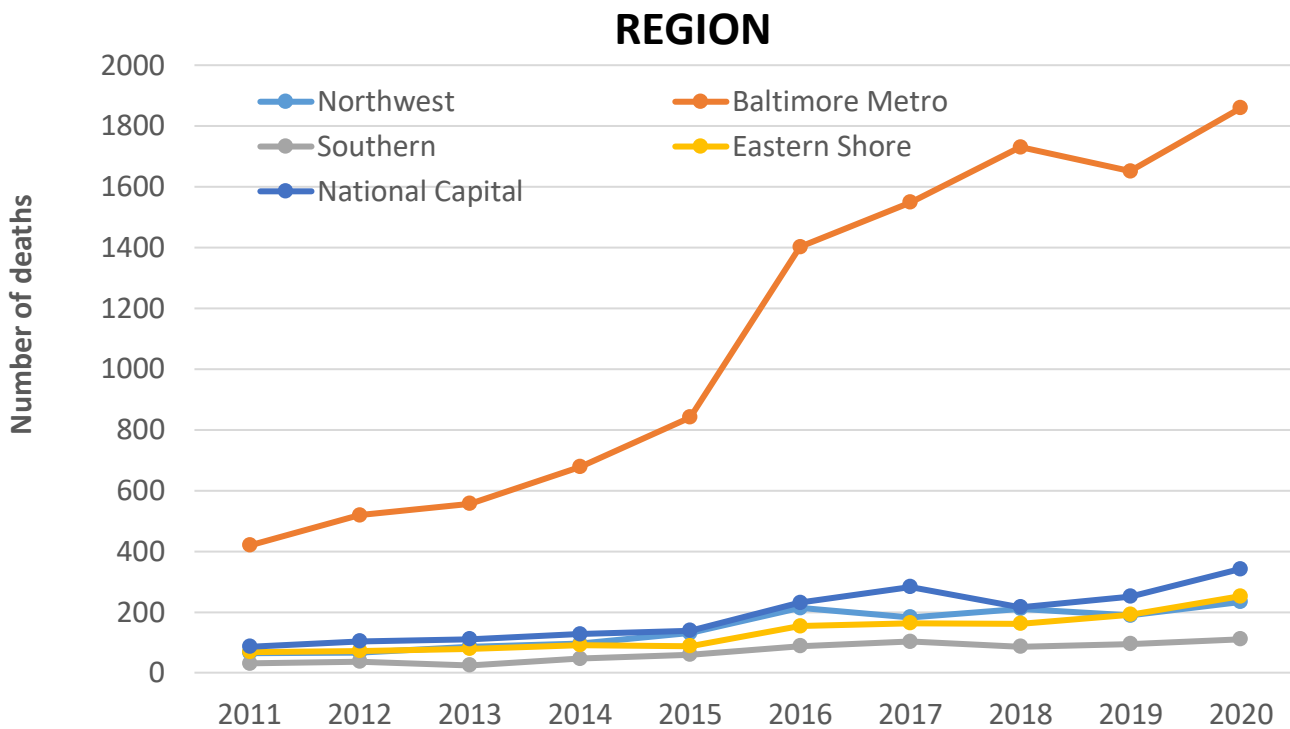


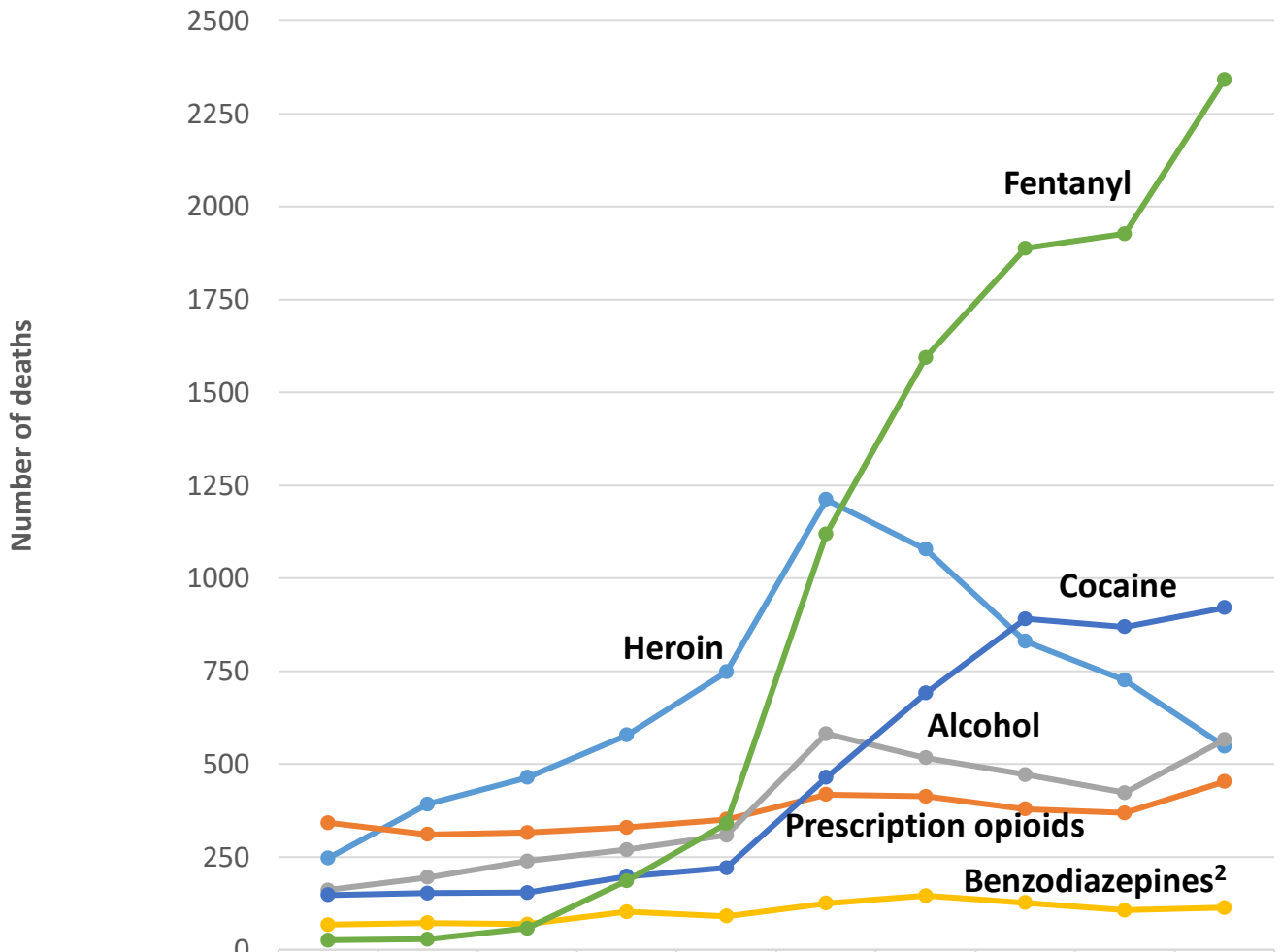
Figure 4. Total Number of Drug- and Alcohol-Related Intoxication Deaths by Place of Occurrence, Maryland, 2011-2020.





**DRUG- AND ALCOHOL-RELATED INTOXICATION  
DEATHS BY SUBSTANCE**

Figure 5. Total Number of Drug- and Alcohol-Related Intoxication Deaths by Selected Substances<sup>1</sup>, Maryland, 2011-2020.



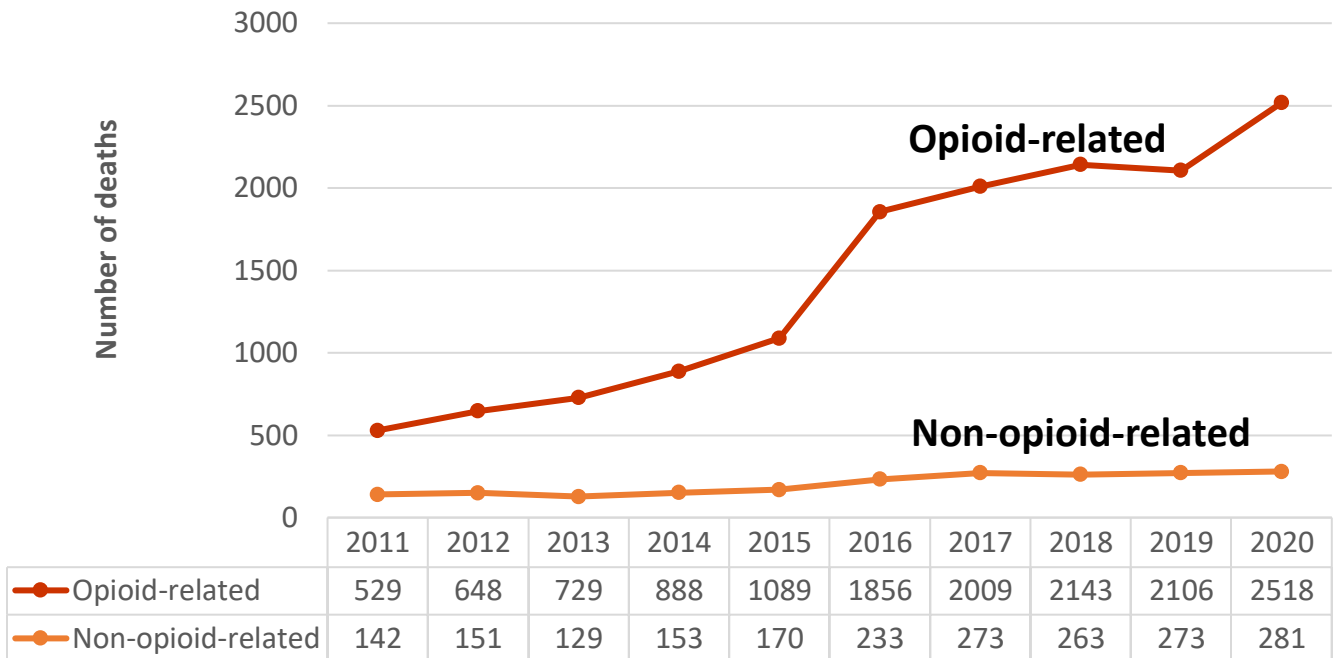
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Heroin	247	392	464	578	748	1212	1078	830	726	548
Prescription opioids	342	311	316	330	351	418	413	379	369	453
Alcohol	161	195	239	270	309	582	517	472	423	566
Benzodiazepines	68	73	69	103	91	126	146	127	107	114
Cocaine	148	153	154	198	221	464	691	891	869	921
Fentanyl	26	29	58	186	340	1119	1594	1888	1927	2342

<sup>1</sup>Since an intoxication death may involve more than one substance, counts of deaths related to specific substances do not sum to the total number of deaths.

<sup>2</sup>Includes deaths caused by benzodiazepines and related drugs with similar sedative effects.

# OPIOID-RELATED DEATHS

Figure 6. Total Number of Opioid\* and Non-Opioid- Related Deaths Occurring in Maryland, 2011-2020.



\*Total opioids include heroin, prescription opioids, and illicit forms of fentanyl.

Figure 7. Number of Opioid-Related Deaths Occurring in Maryland by Substance, 2011-2020.

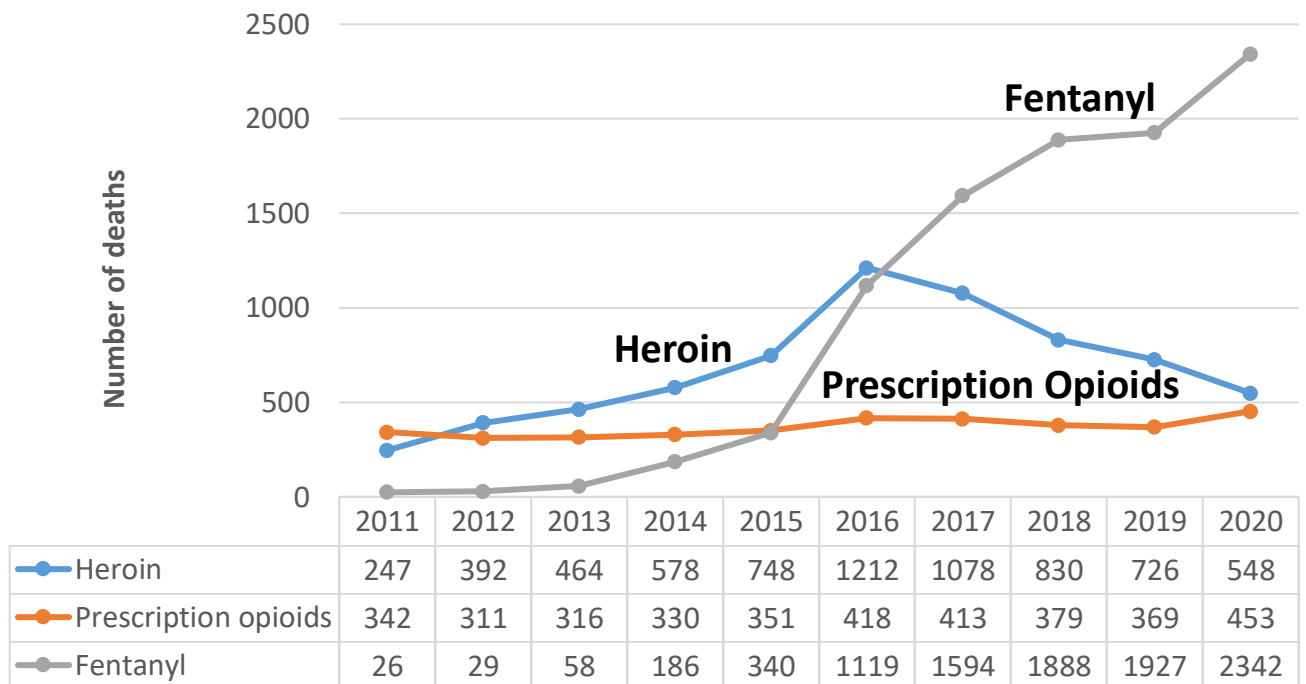


Figure 8. Number of Fentanyl-Related Deaths Occurring in Maryland, 2011-2020.

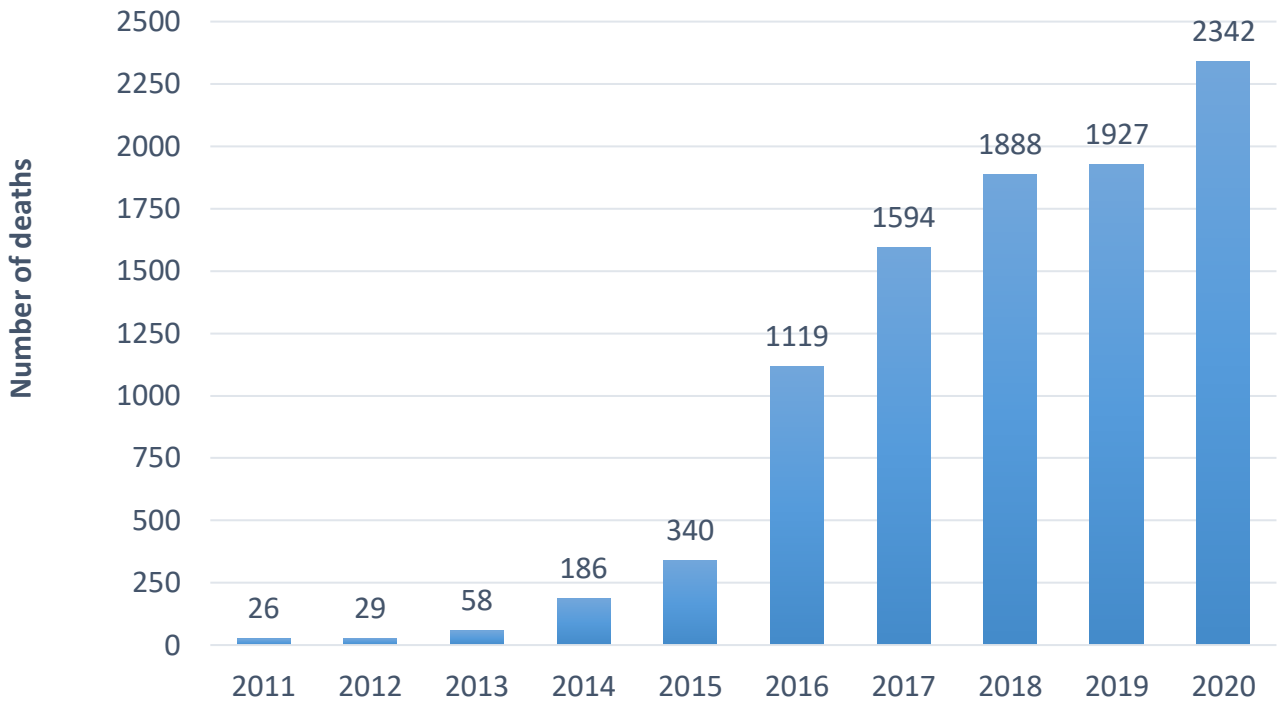


Figure 9. Number of Fentanyl-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

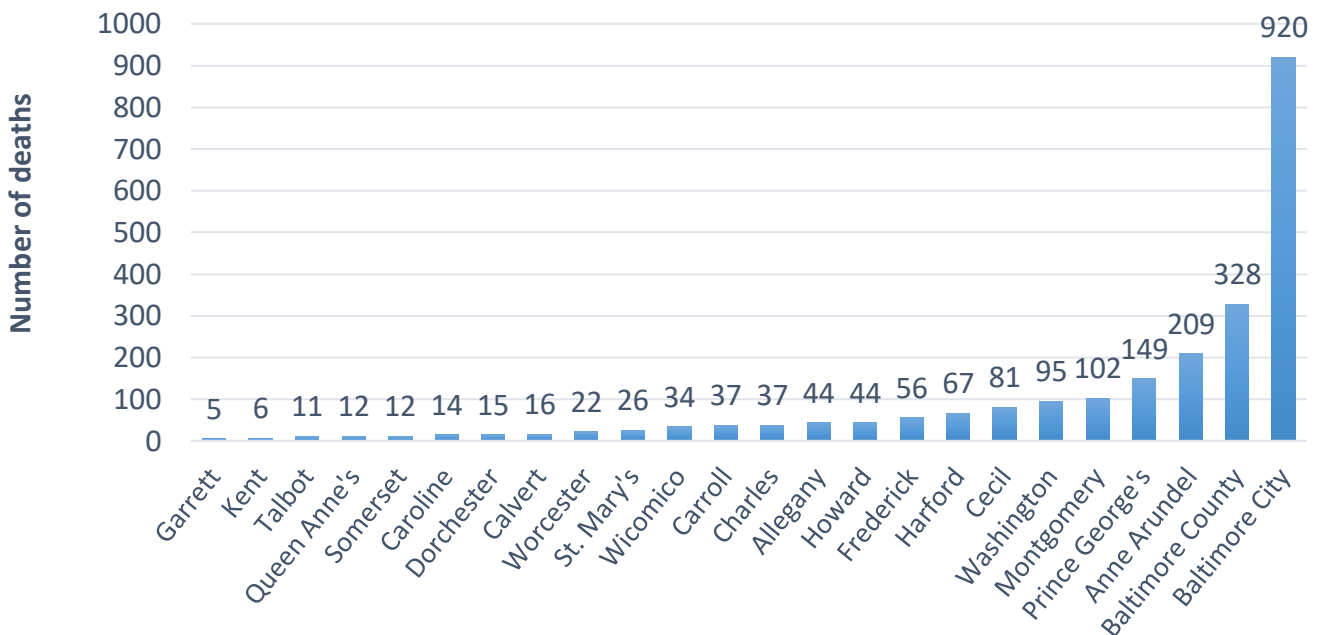
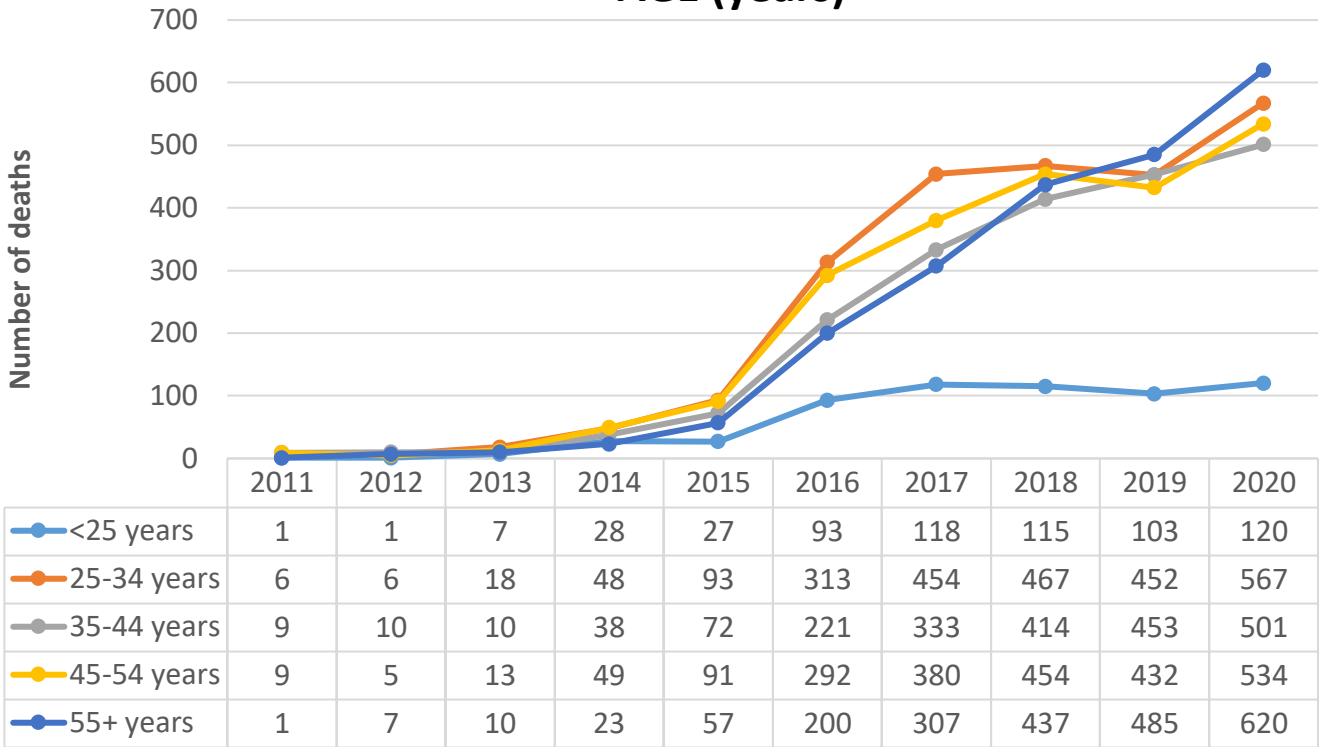
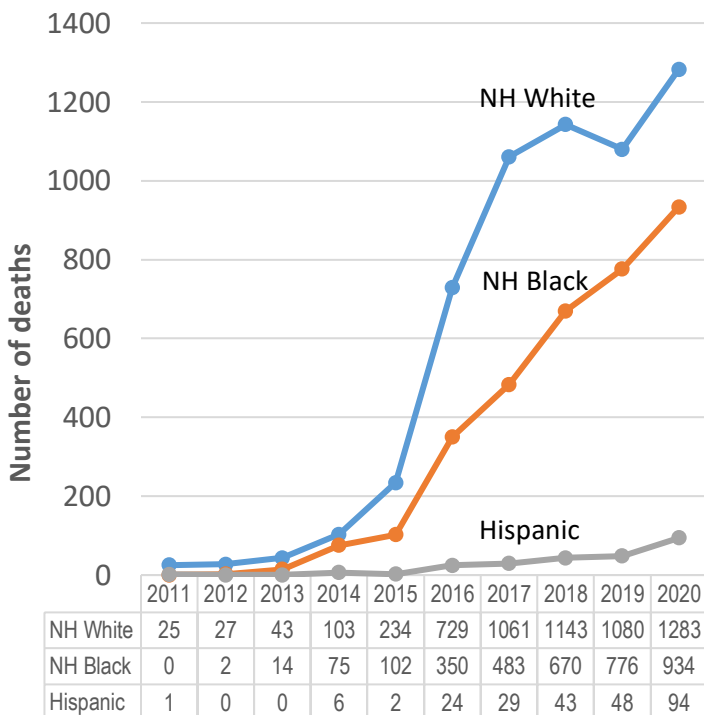


Figure 10. Number of Fentanyl-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

**AGE (years)**



**RACE/ETHNICITY**



**GENDER**

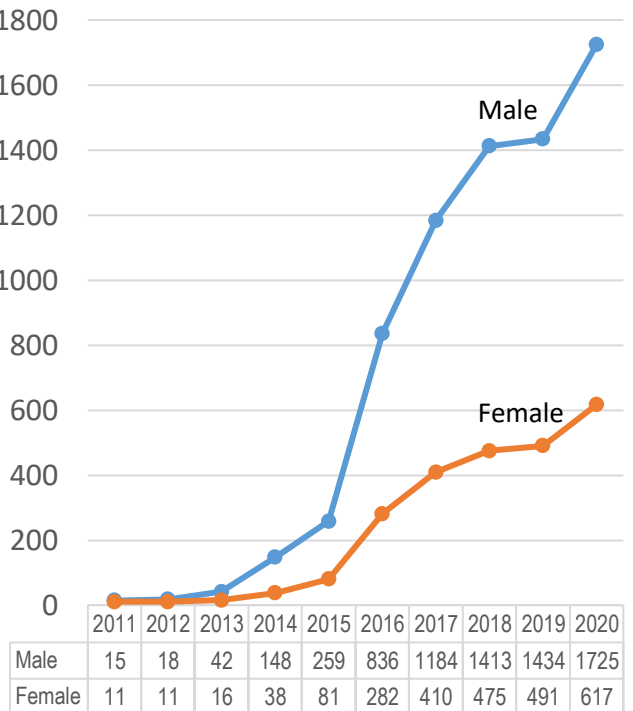


Figure 11. Number of Fentanyl-Related Deaths by Place of Occurrence, Maryland, 2011-2020.

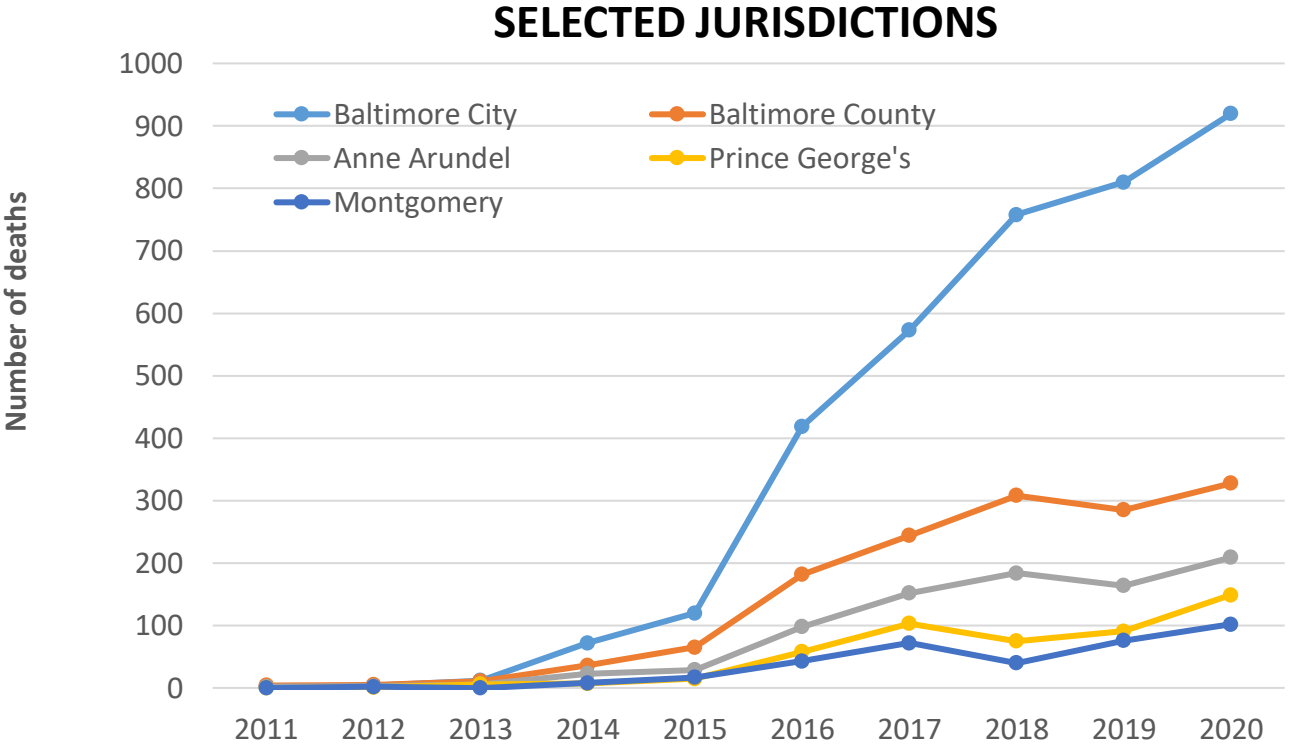
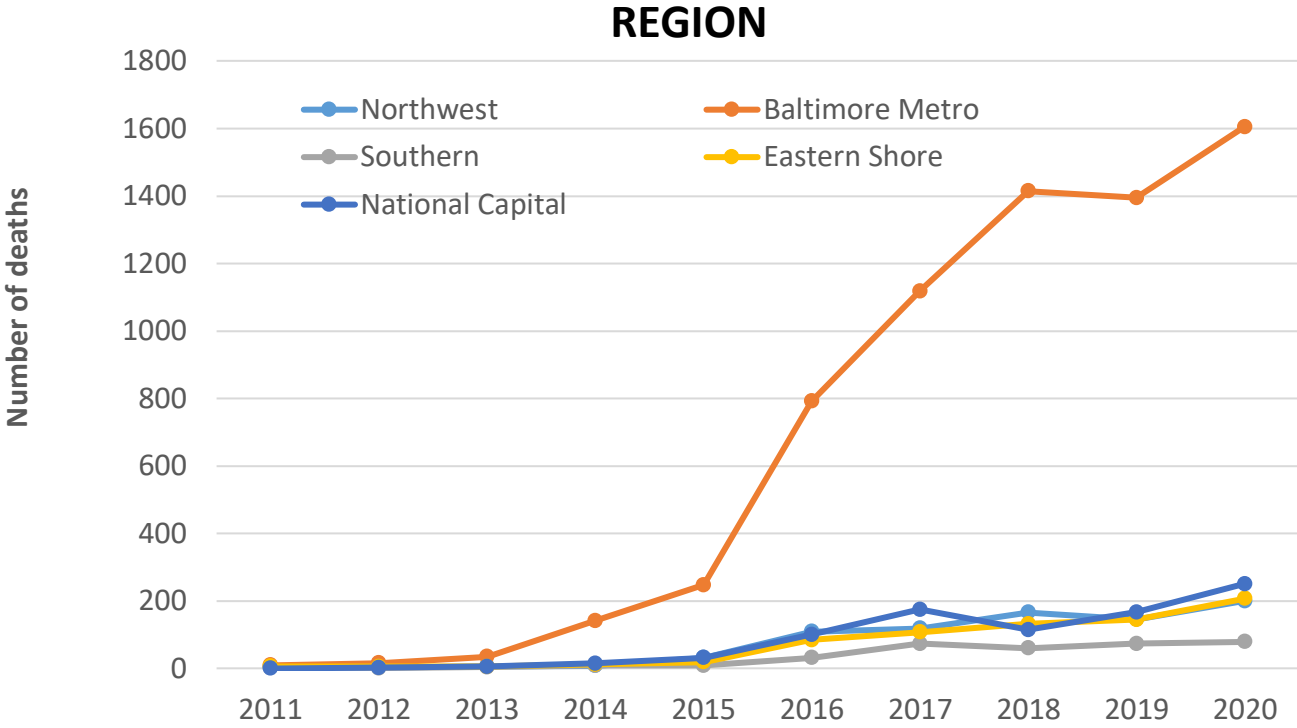


Figure 12. Number of Heroin-Related Deaths Occurring in Maryland, 2011-2020.

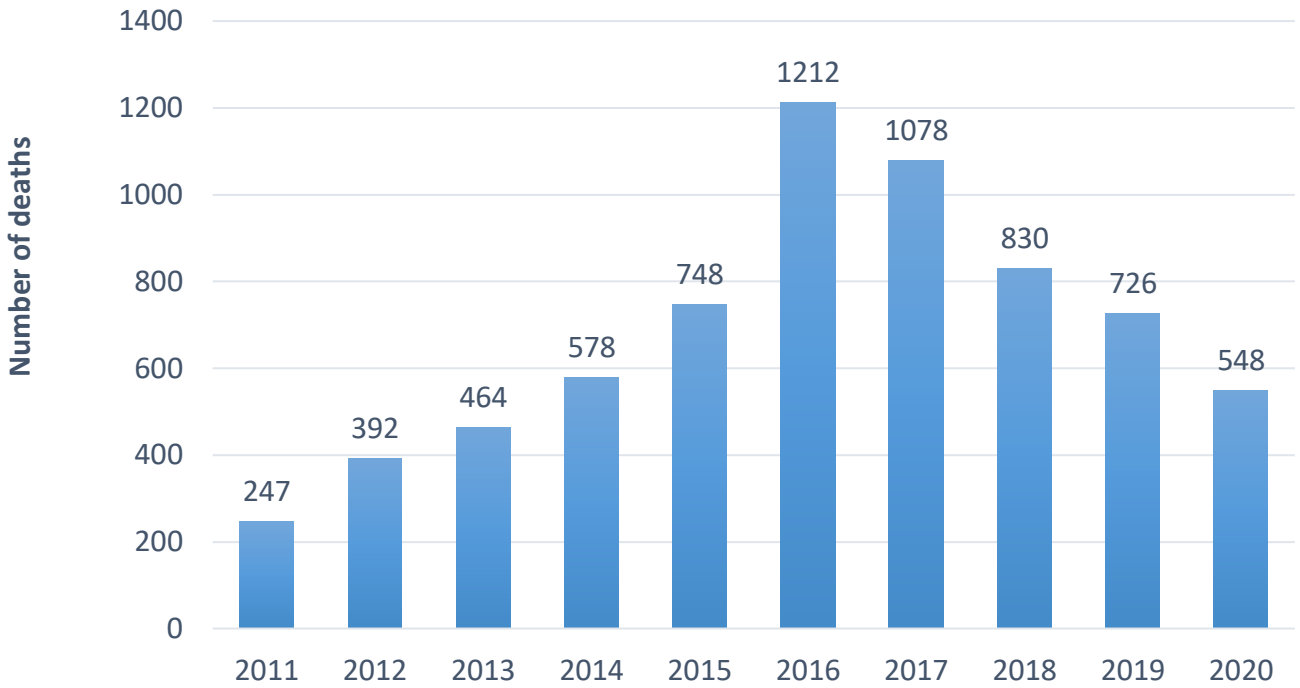


Figure 13. Number of Heroin-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

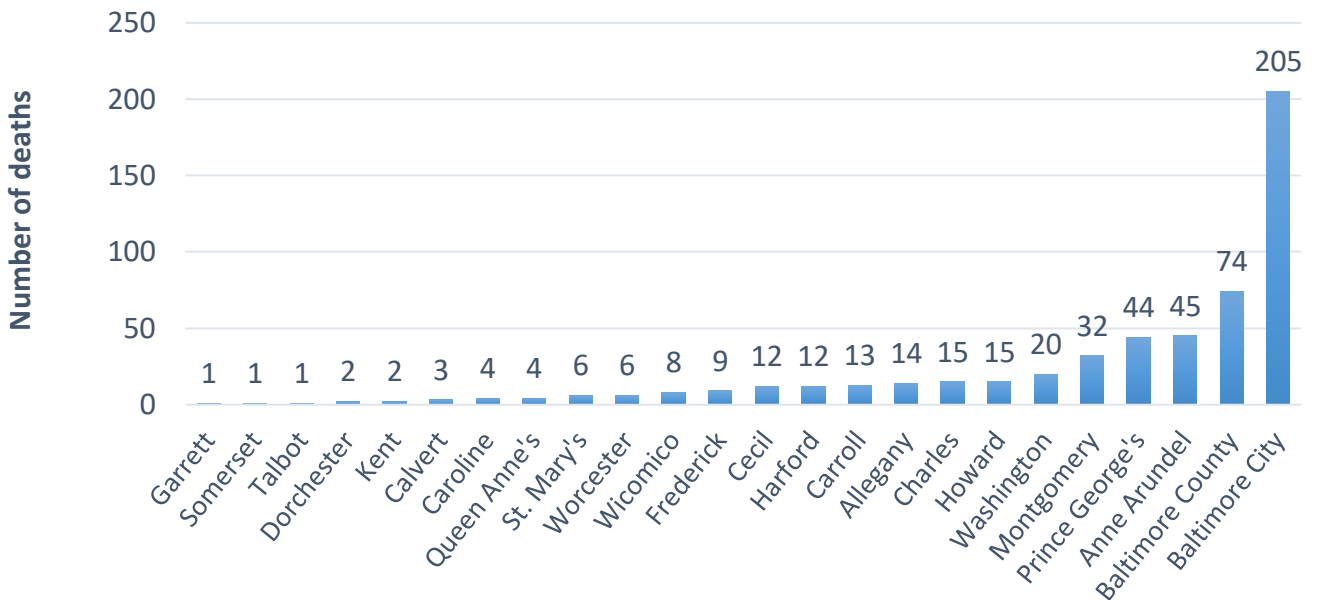
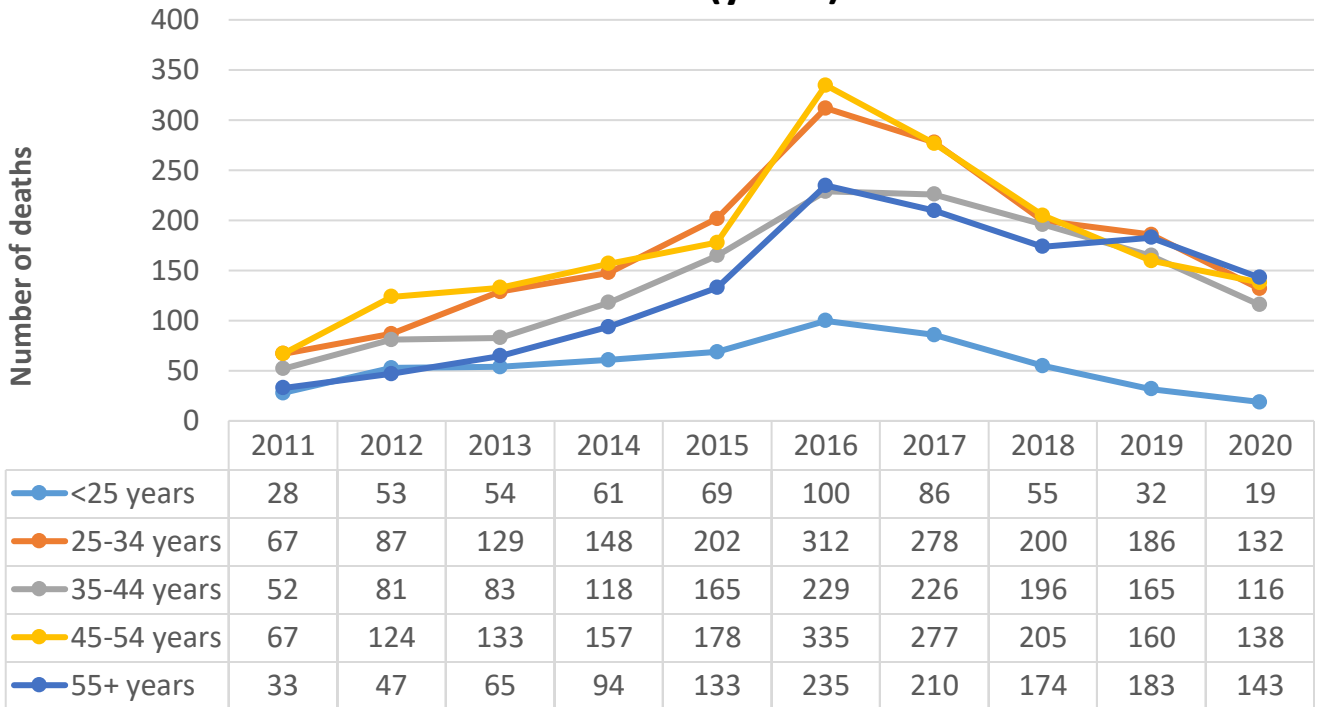


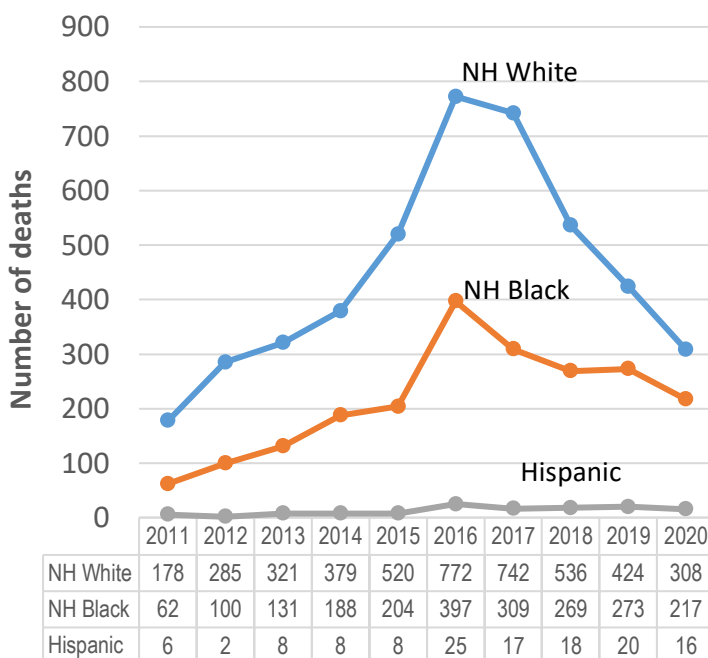


Figure 14. Number of Heroin-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

### AGE (years)



### RACE/ETHNICITY



### GENDER

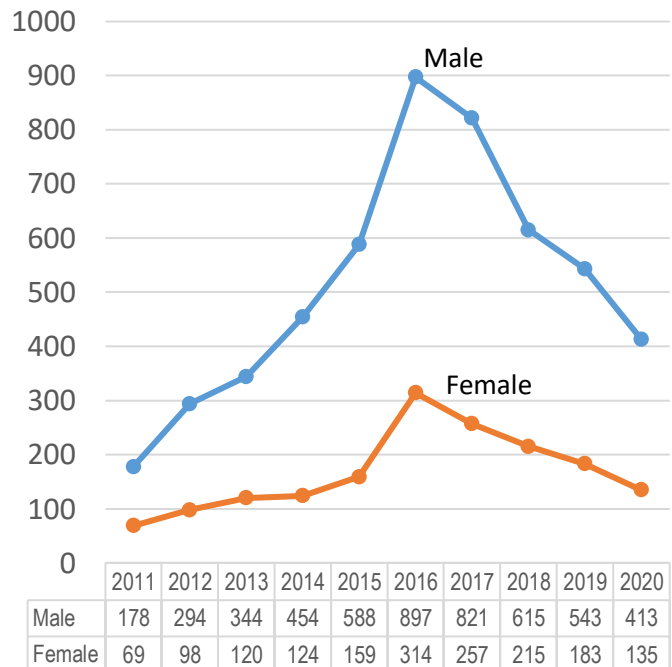
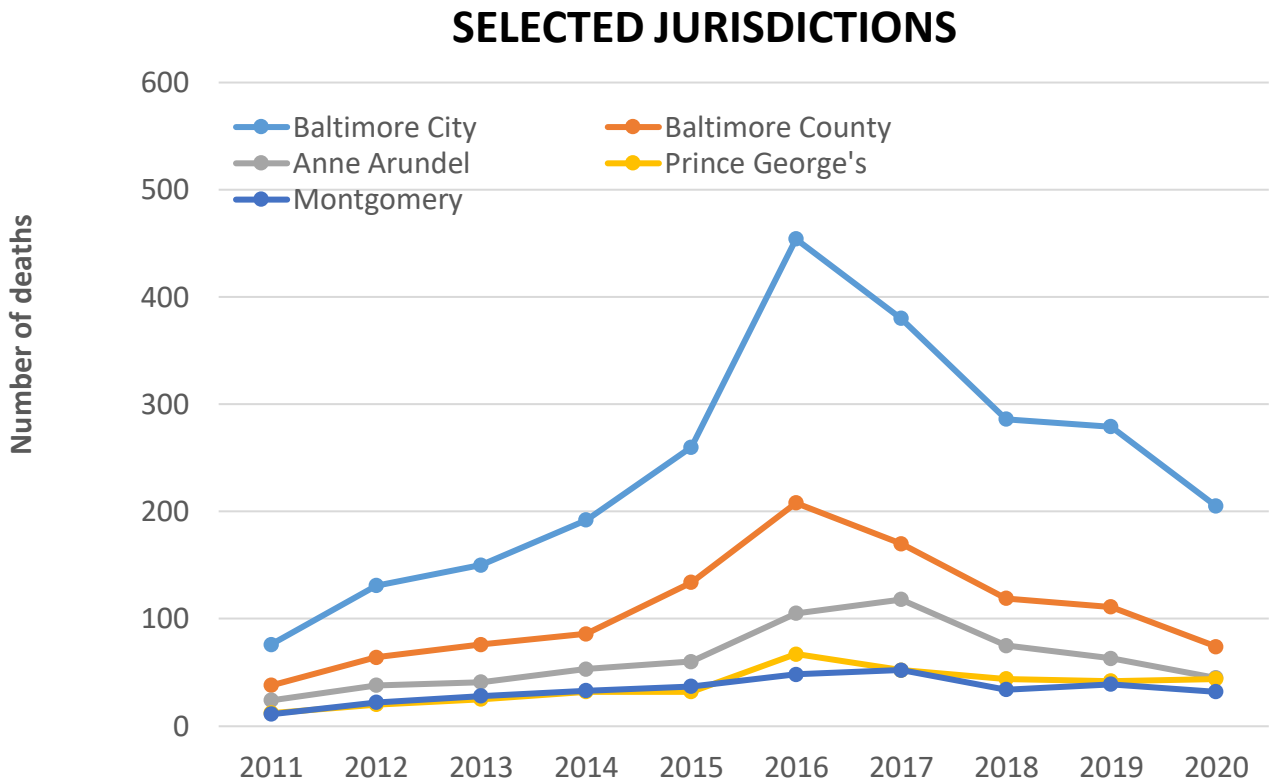
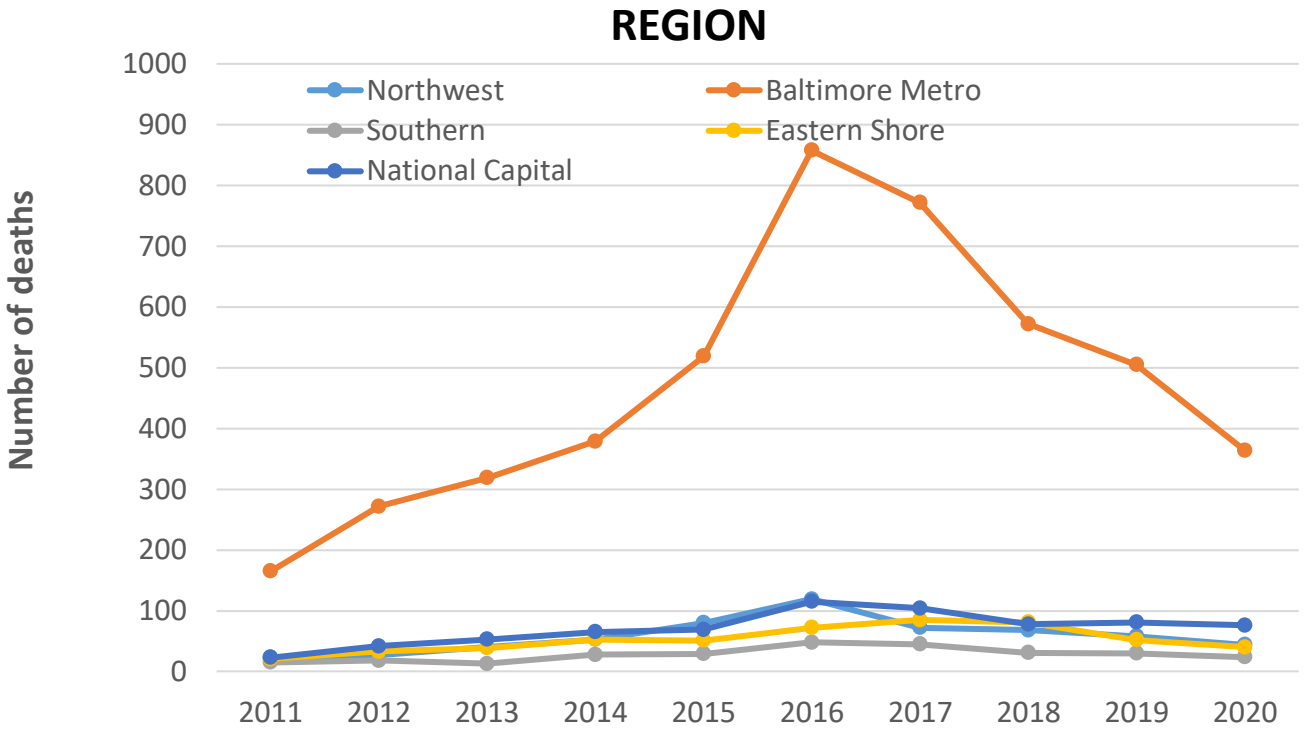
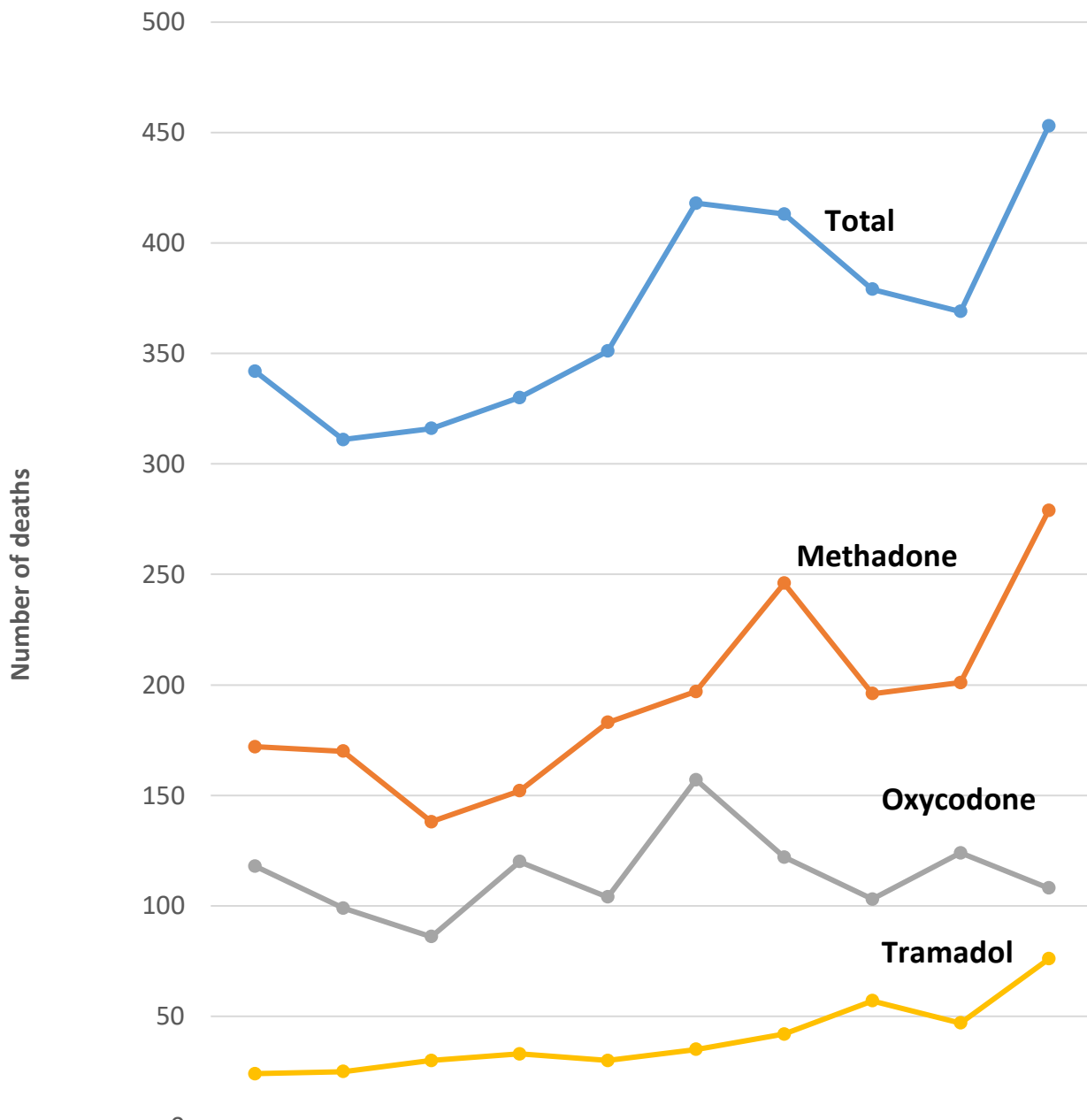


Figure 15. Number of Heroin-Related Deaths by Place of Occurrence, Maryland, 2011-2020.



# PRESCRIPTION OPIOID-RELATED DEATHS

Figure 16. Number of Deaths Occurring in Maryland by Selected Prescription Opioids, 2011-2020.



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Total</b>	342	311	316	330	351	418	413	379	369	453
<b>Methadone</b>	172	170	138	152	183	197	246	196	201	279
<b>Oxycodone</b>	118	99	86	120	104	157	122	103	124	108
<b>Tramadol</b>	24	25	30	33	30	35	42	57	47	76

Figure 17. Number of Prescription Opioid-Related Deaths Occurring in Maryland, 2011-2020.

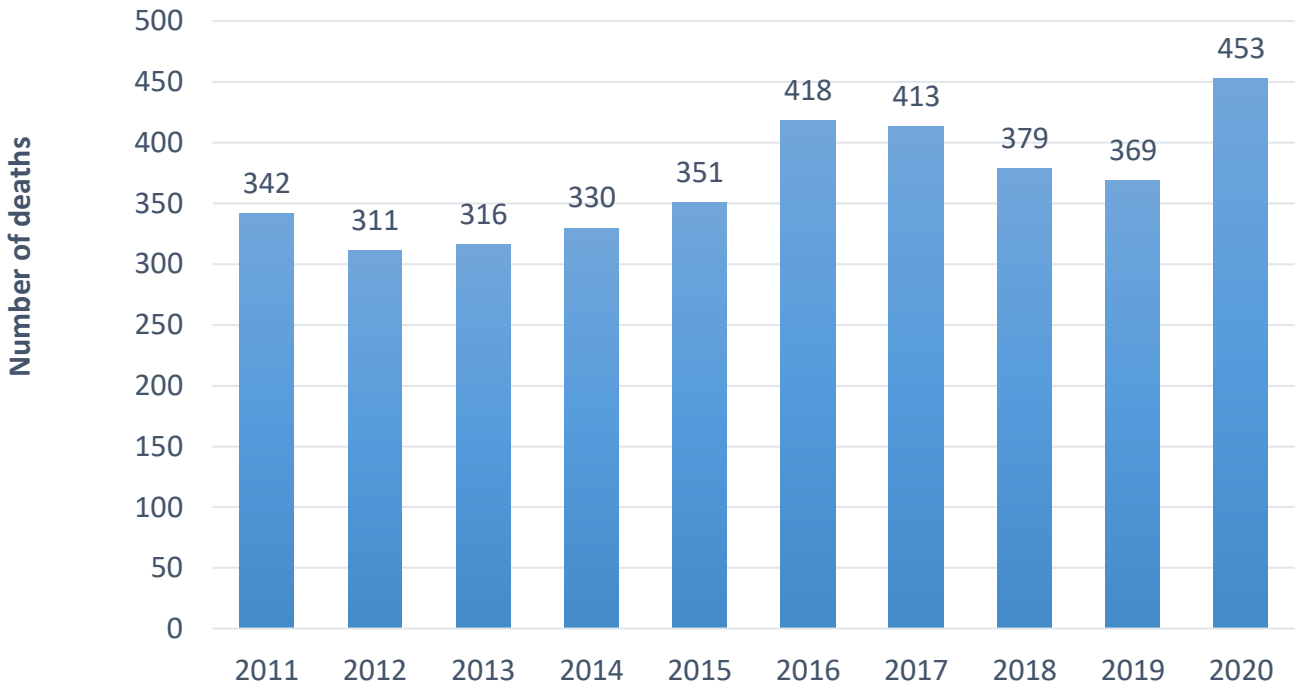


Figure 18. Number of Prescription Opioid-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

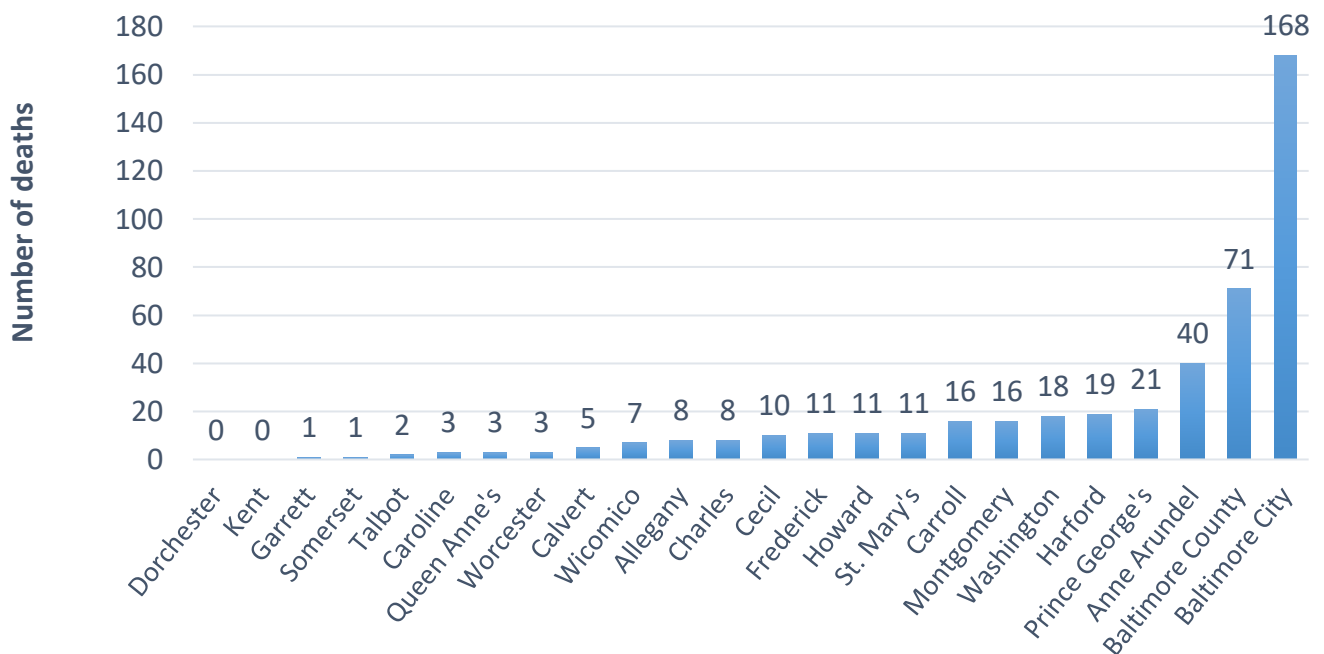
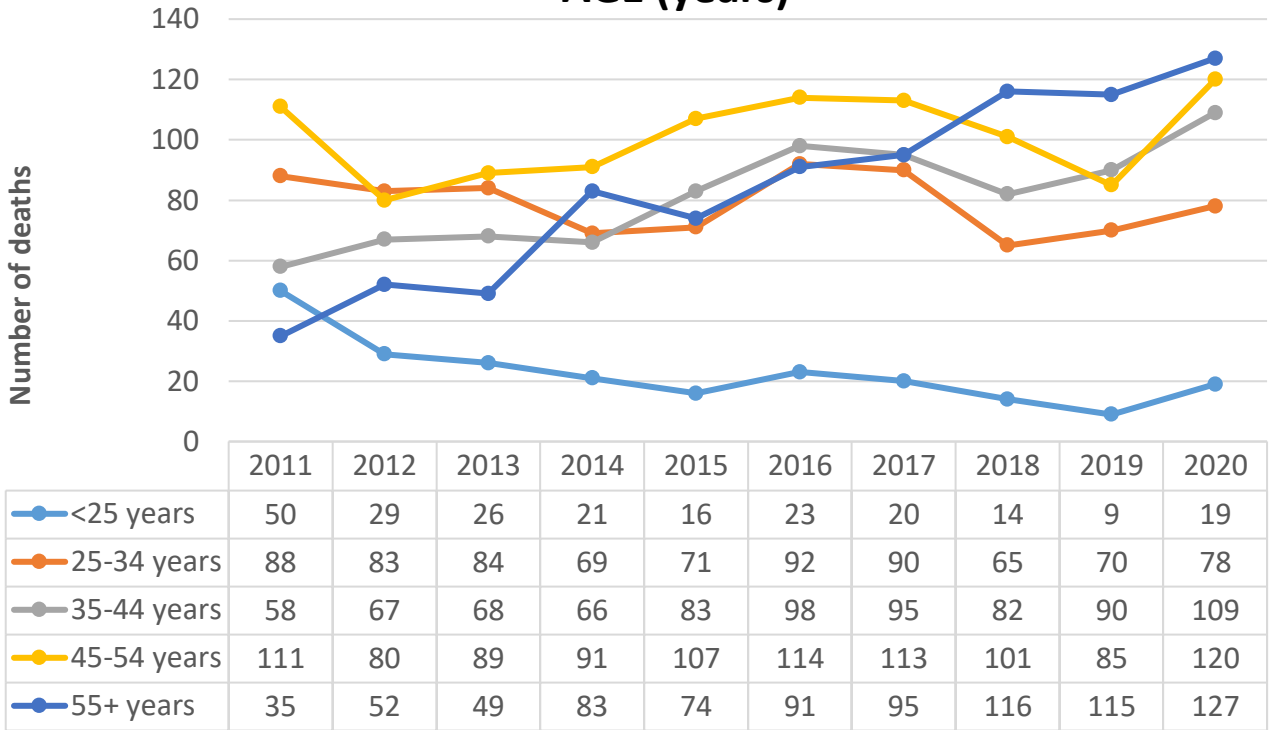
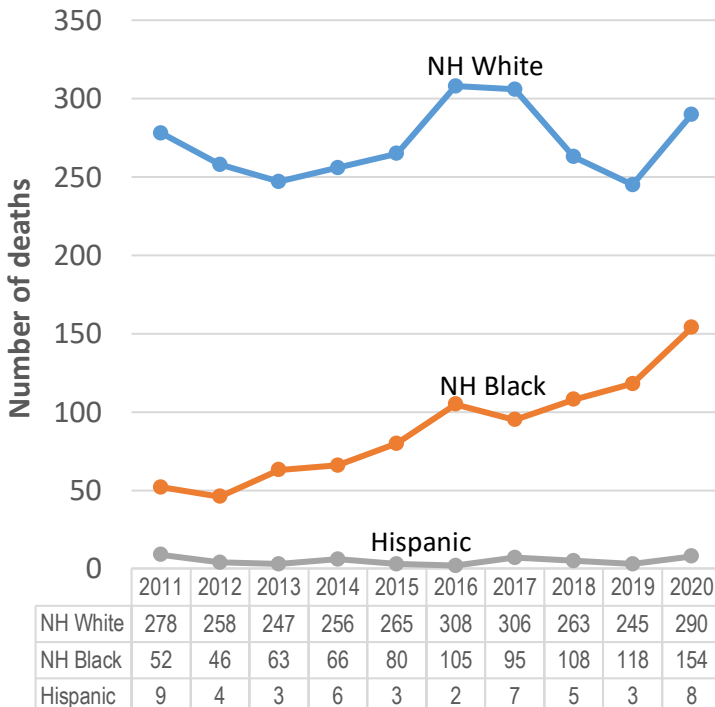


Figure 19. Number of Prescription Opioid-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

### AGE (years)



### RACE/ETHNICITY



### GENDER

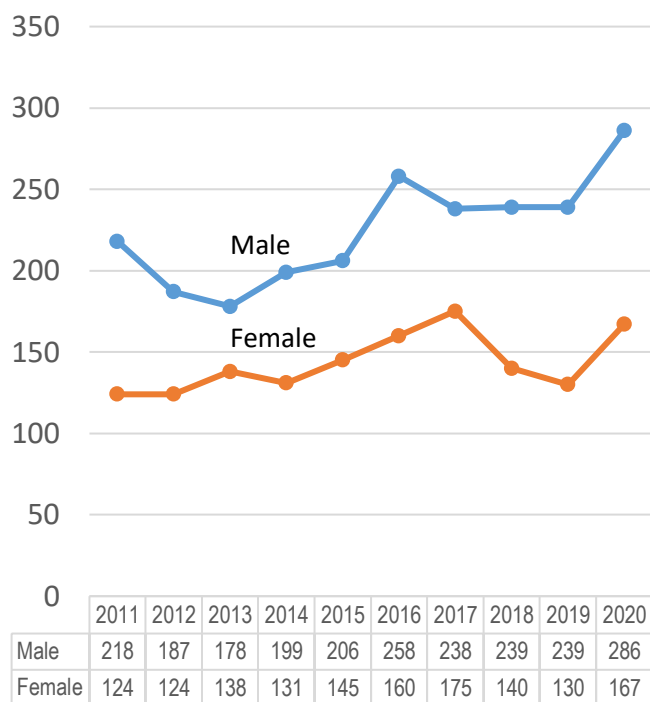


Figure 20. Number of Prescription Opioid-Related Deaths by Place of Occurrence, Maryland, 2011-2020.

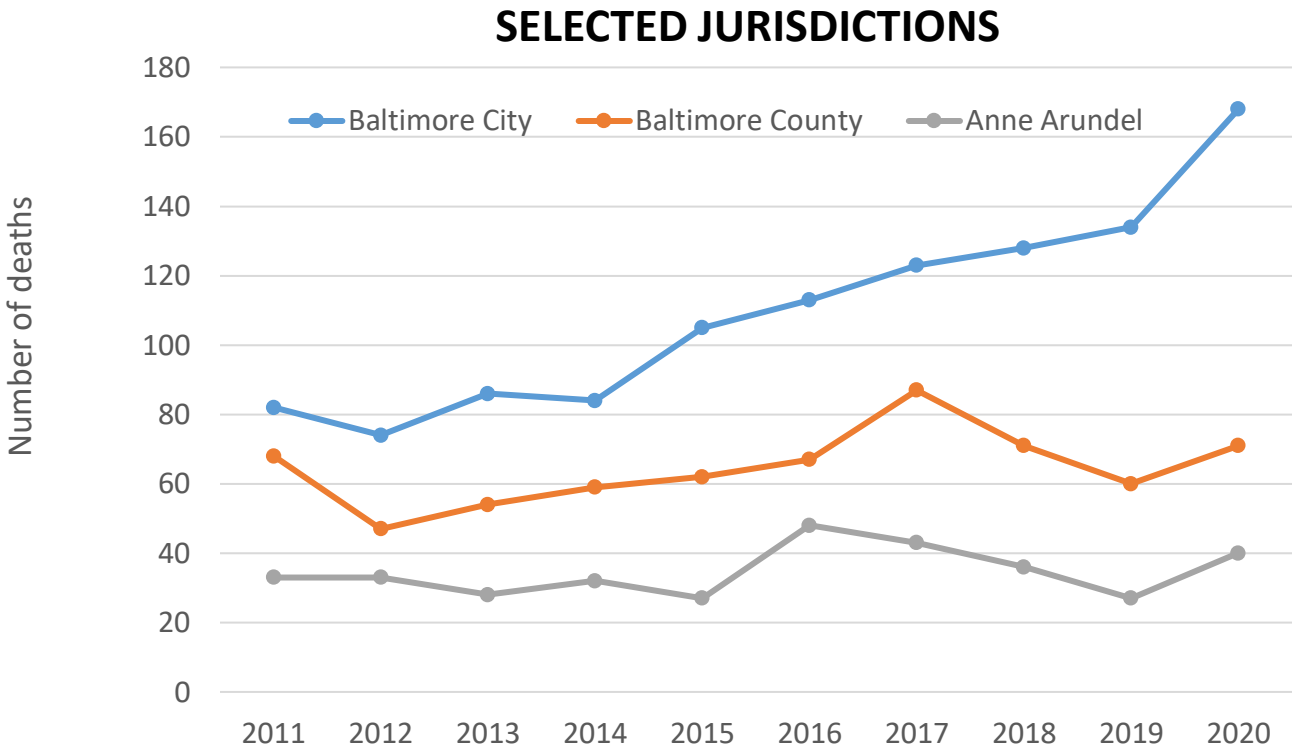
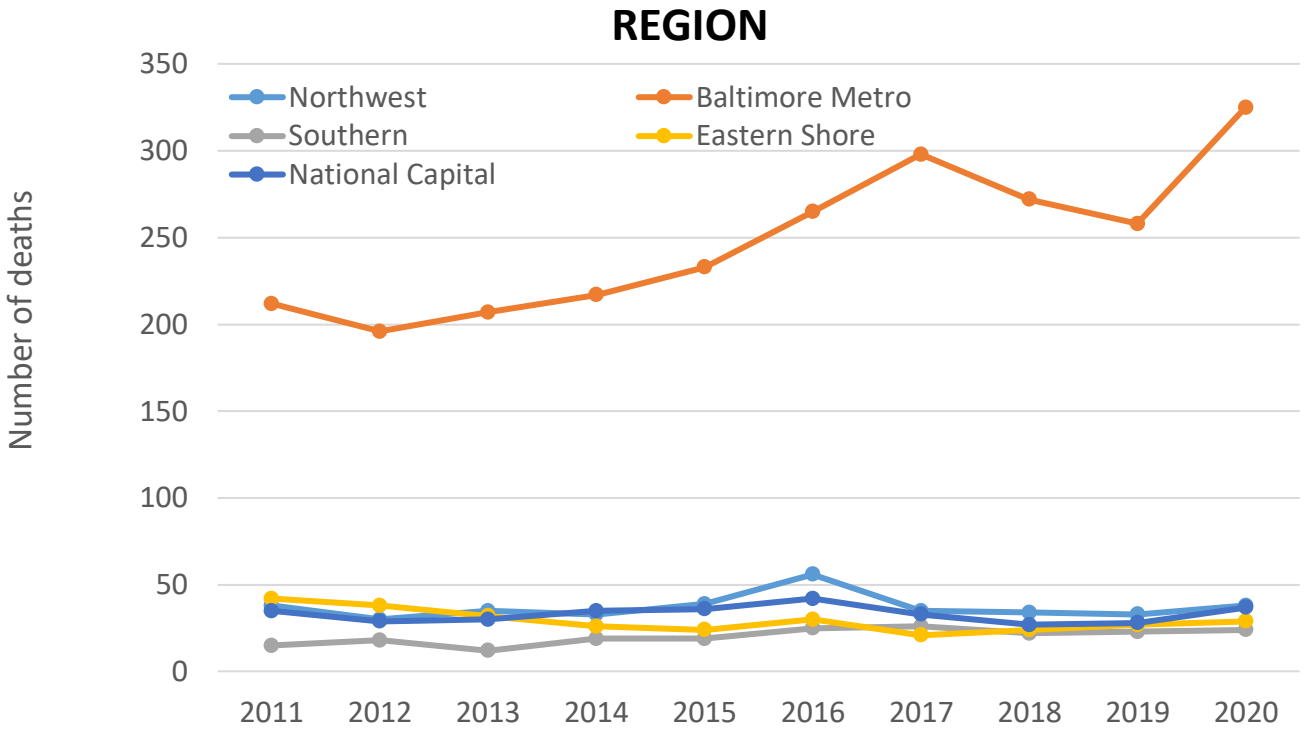


Figure 21. Number of Carfentanil-Related Deaths Occurring in Maryland, 2011-2020.

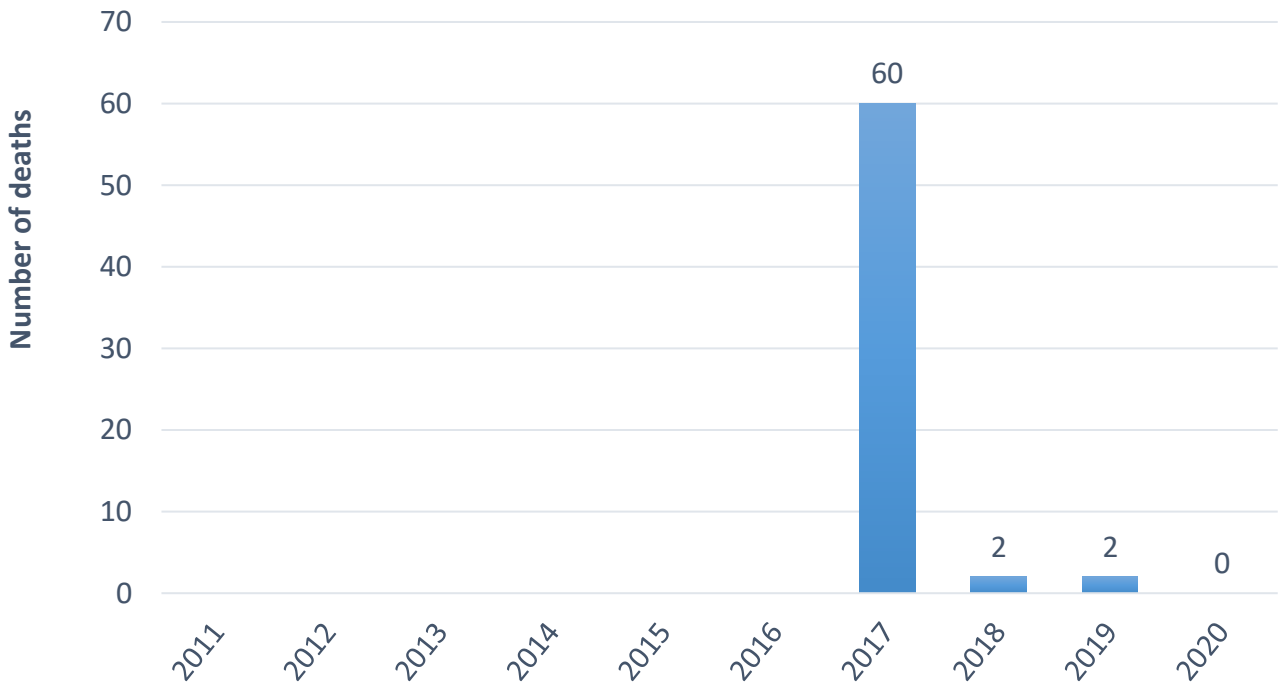
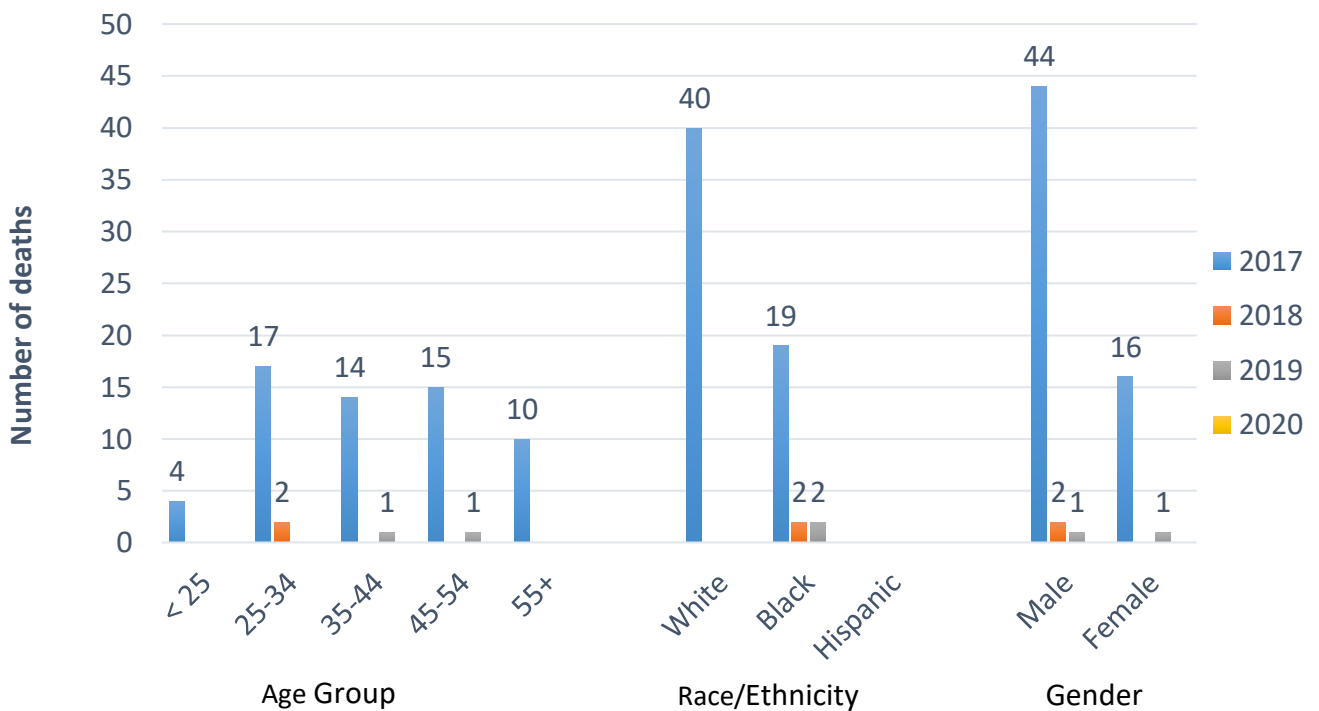


Figure 22. Number of Carfentanil-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity, and Gender, 2017-2020.





## COCAINE-RELATED DEATHS

Figure 23. Number of Cocaine-Related Deaths Occurring in Maryland, 2011-2020.

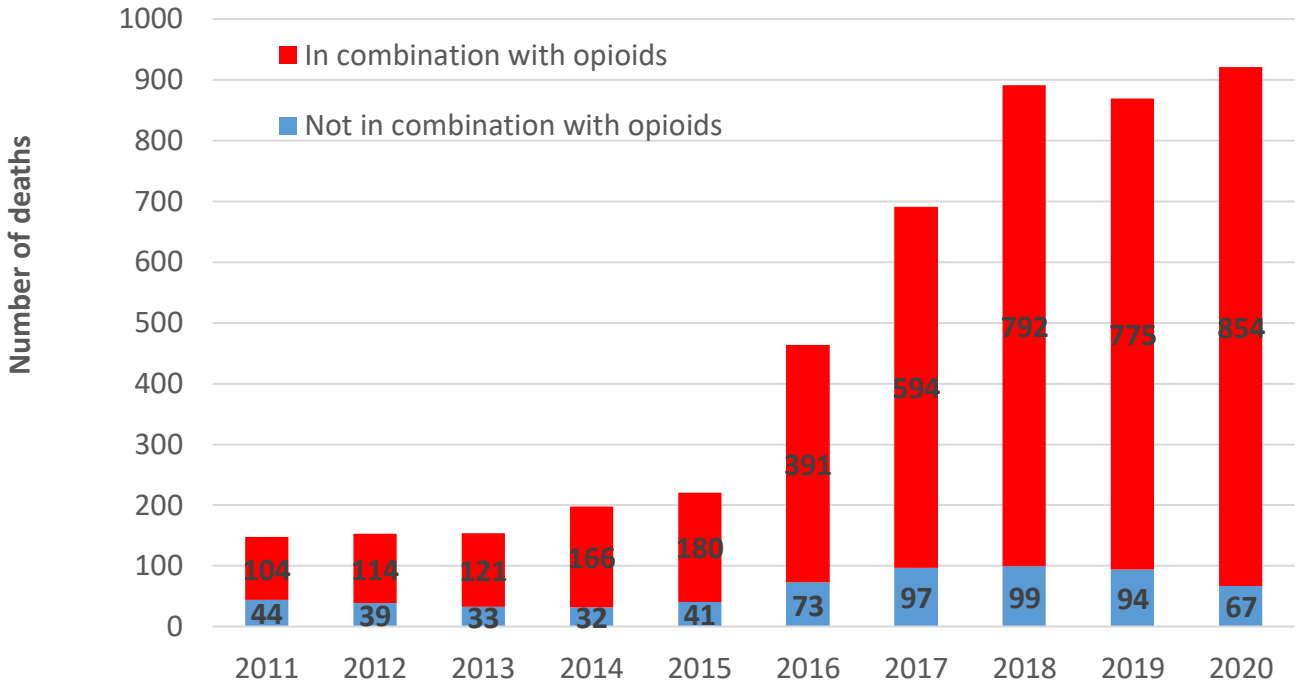


Figure 24. Number of Cocaine-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

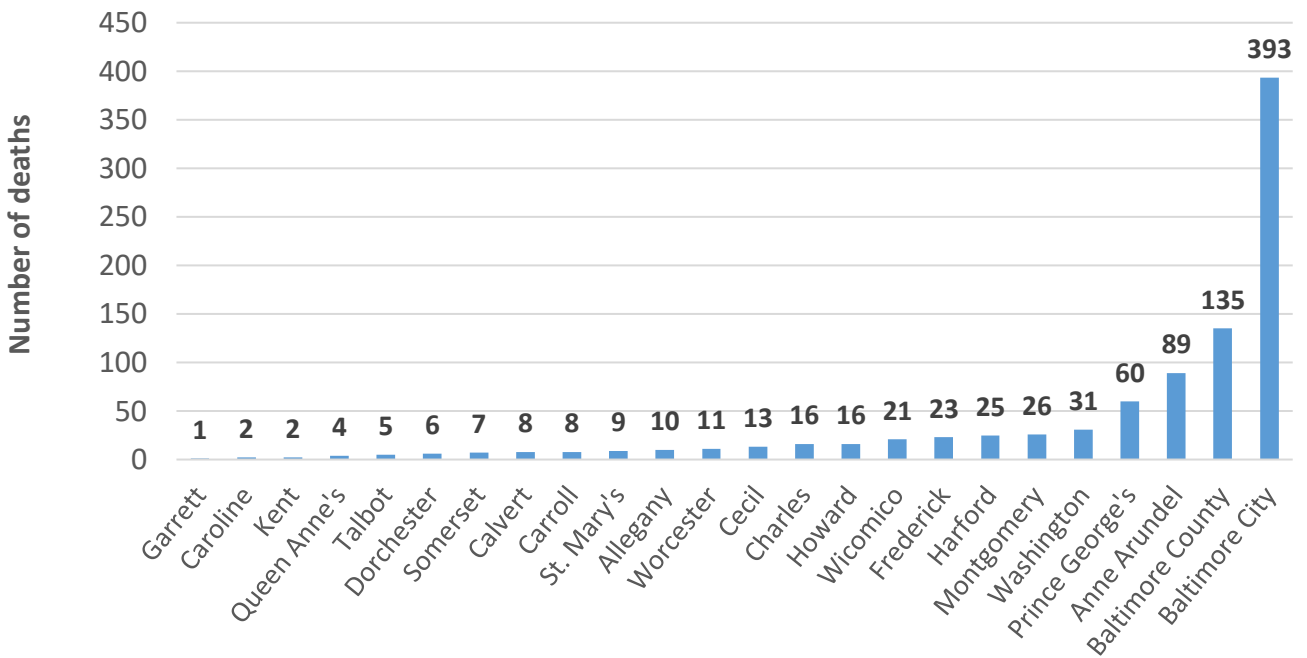
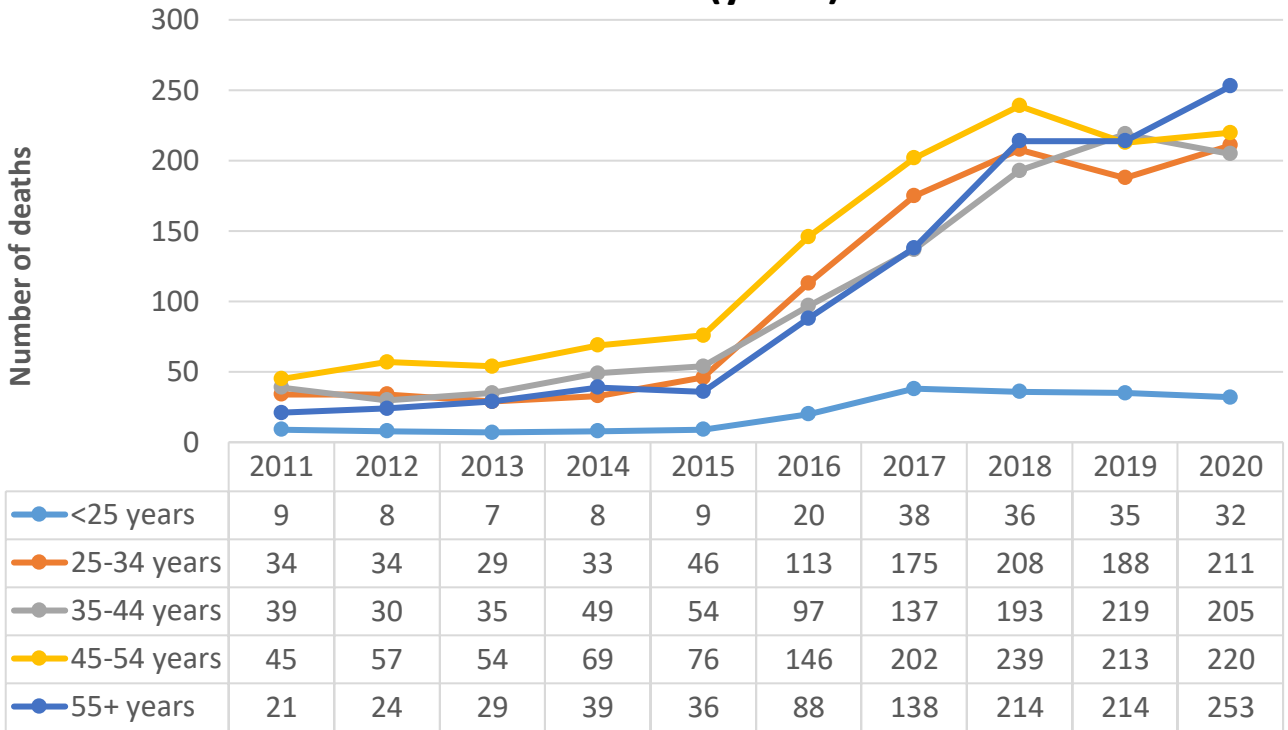
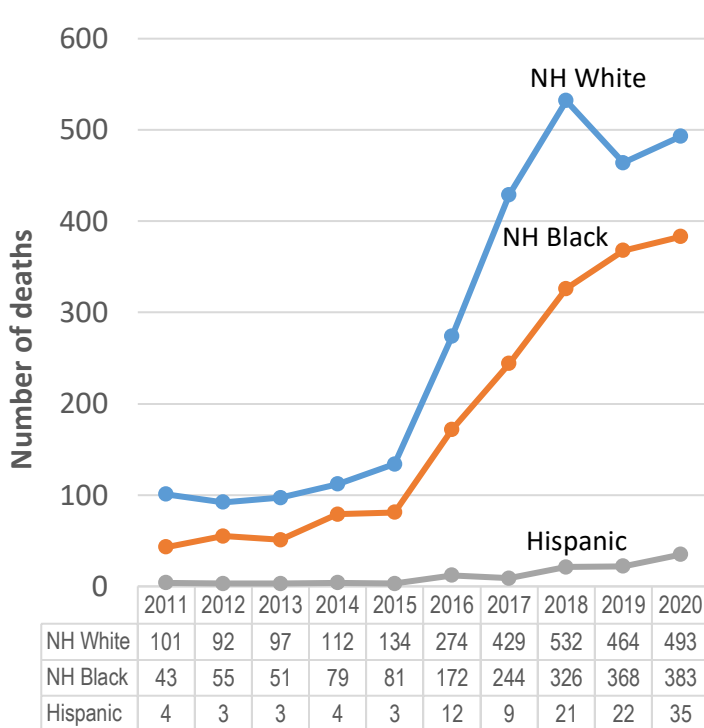


Figure 25. Number of Cocaine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

**AGE (years)**



**RACE/ETHNICITY**



**GENDER**

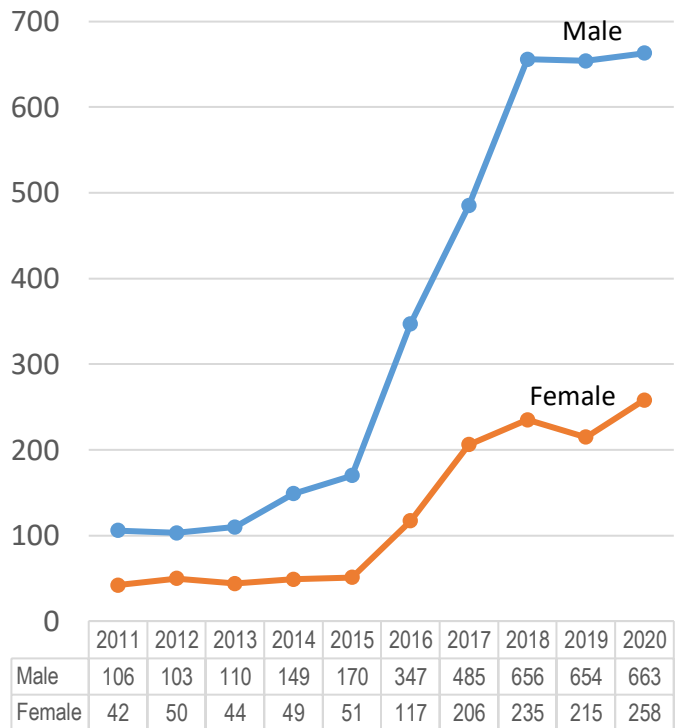
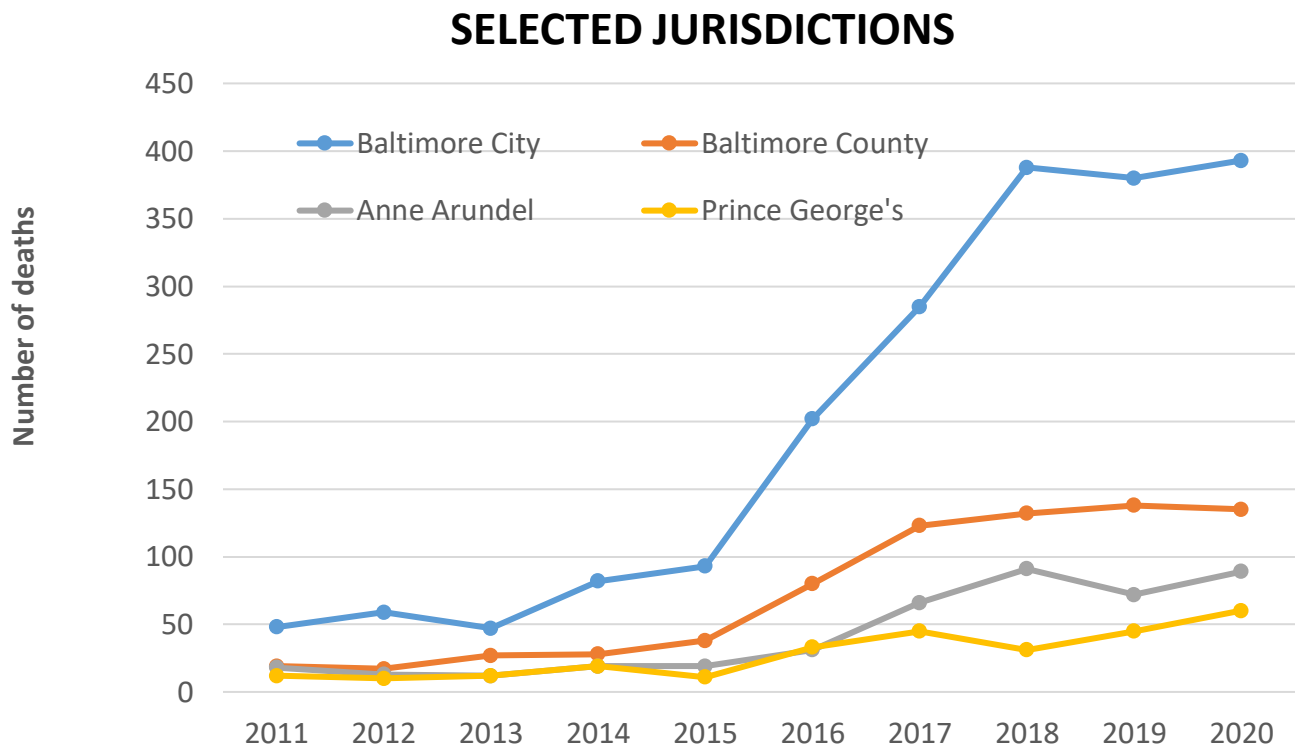
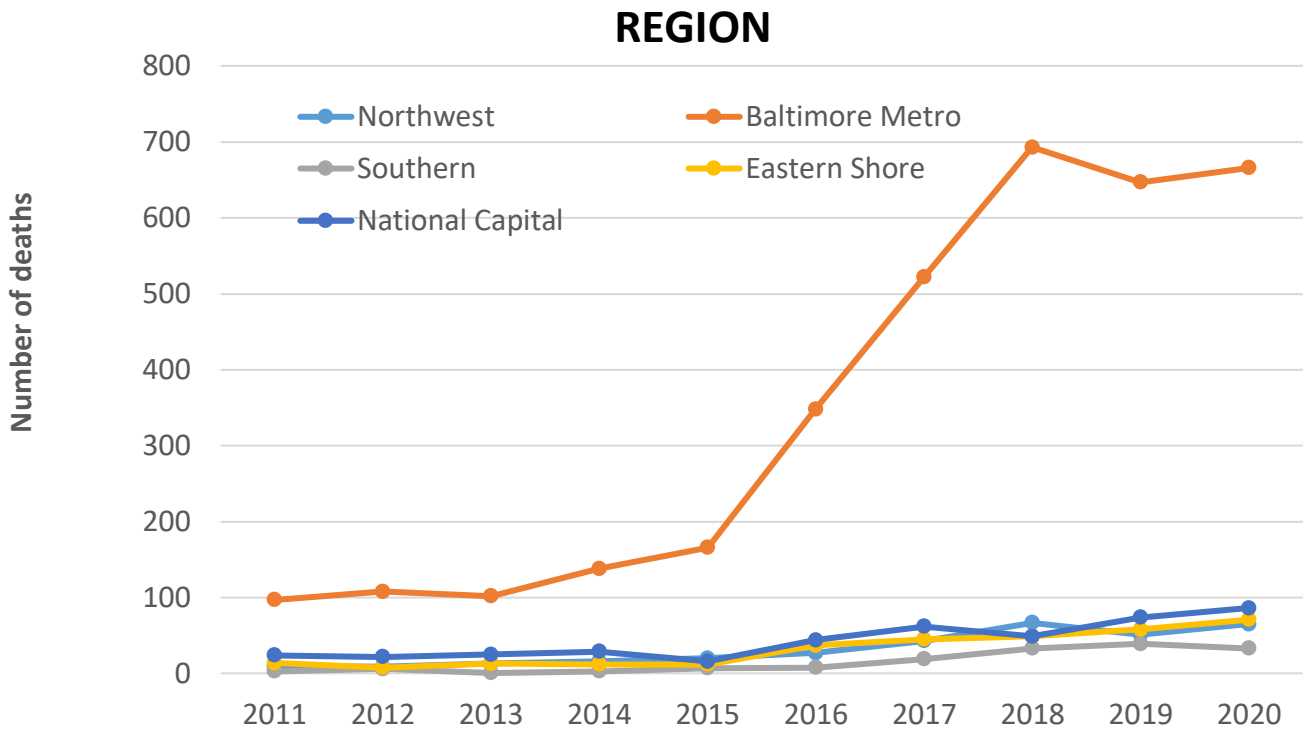


Figure 26. Number of Cocaine-Related Deaths by Place of Occurrence, Maryland, 2011-2020.



# BENZODIAZEPINE-RELATED DEATHS

Figure 27. Number of Benzodiazepine-Related Deaths Occurring in Maryland, 2011-2020.

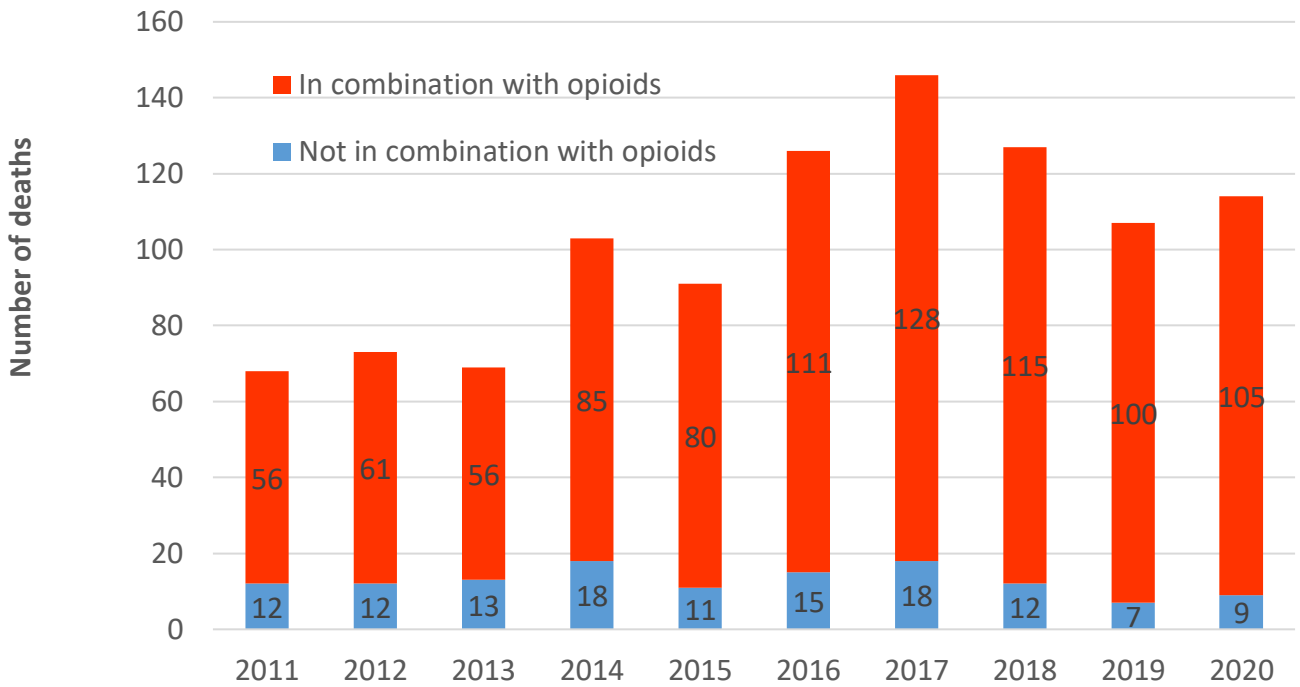


Figure 28. Number of Benzodiazepine-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

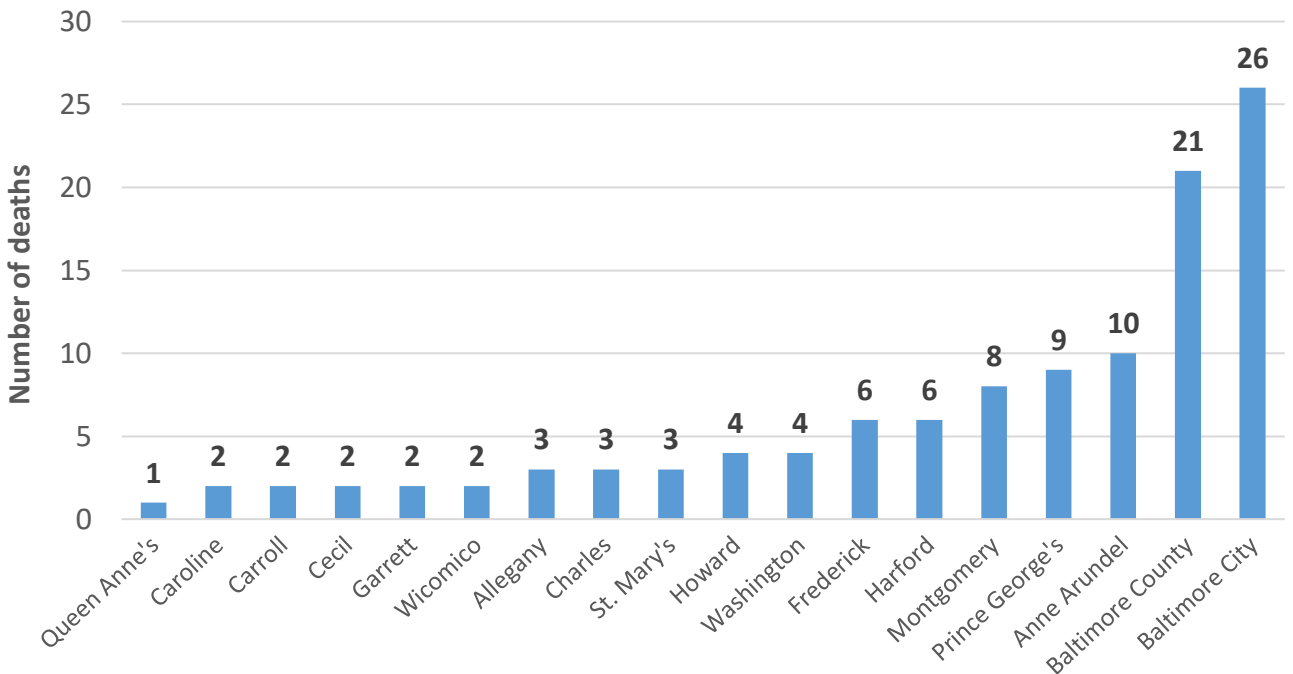
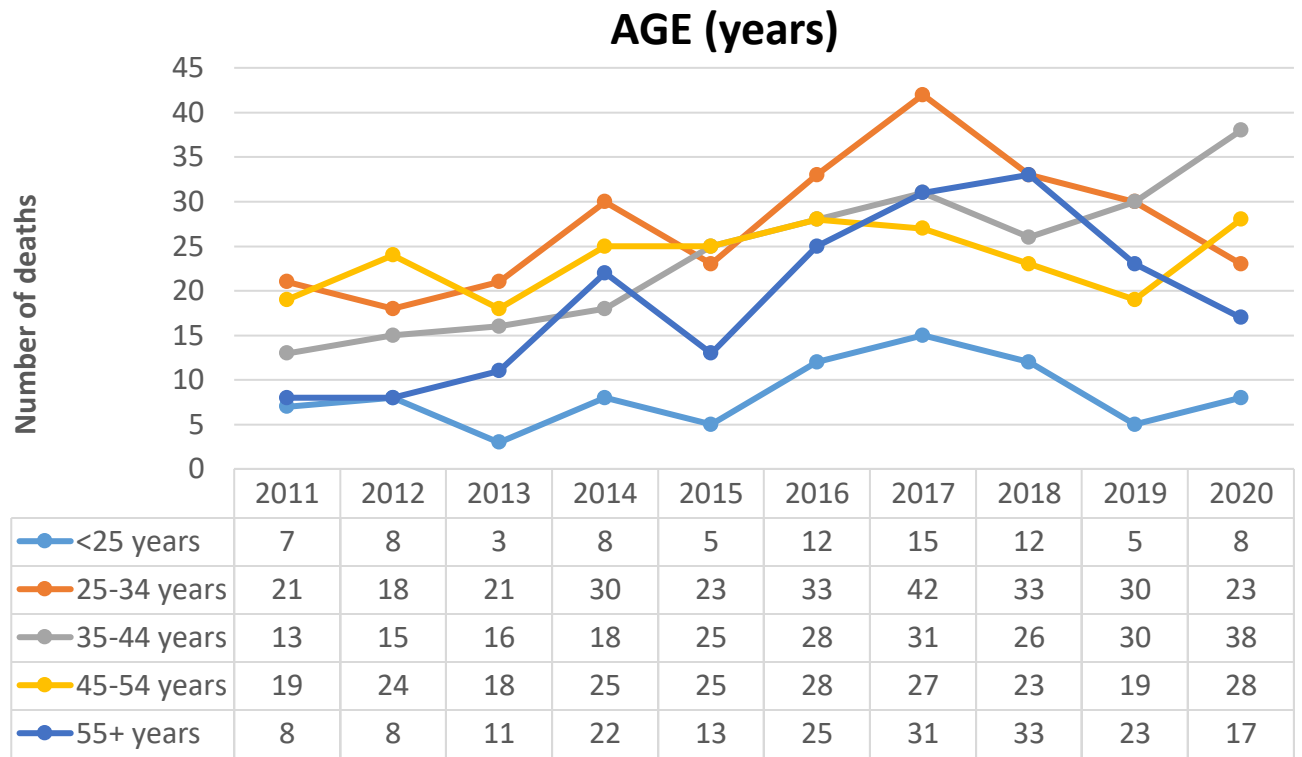
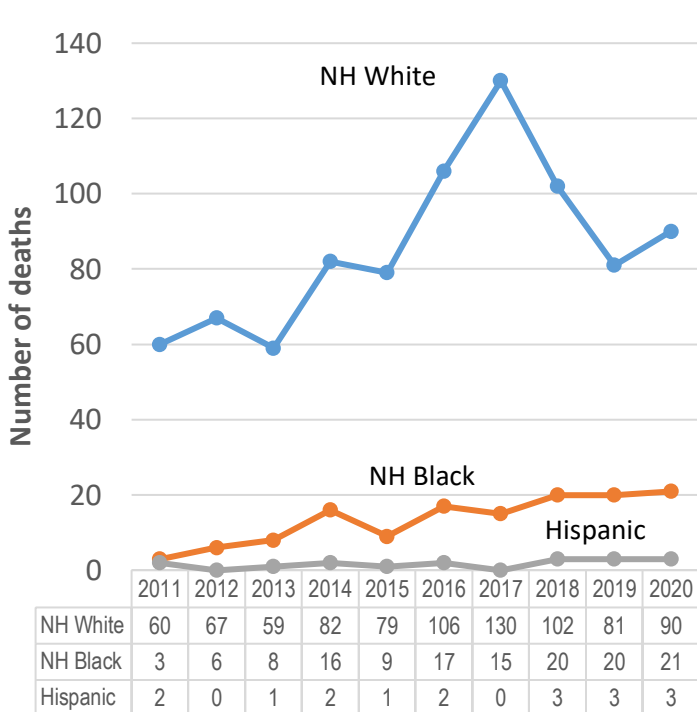


Figure 29. Number of Benzodiazepine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.



### RACE/ETHNICITY



### GENDER

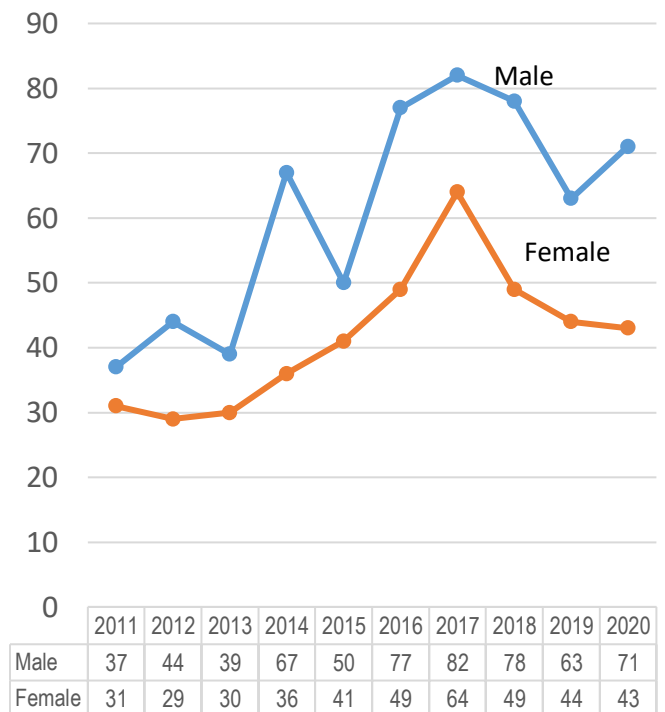
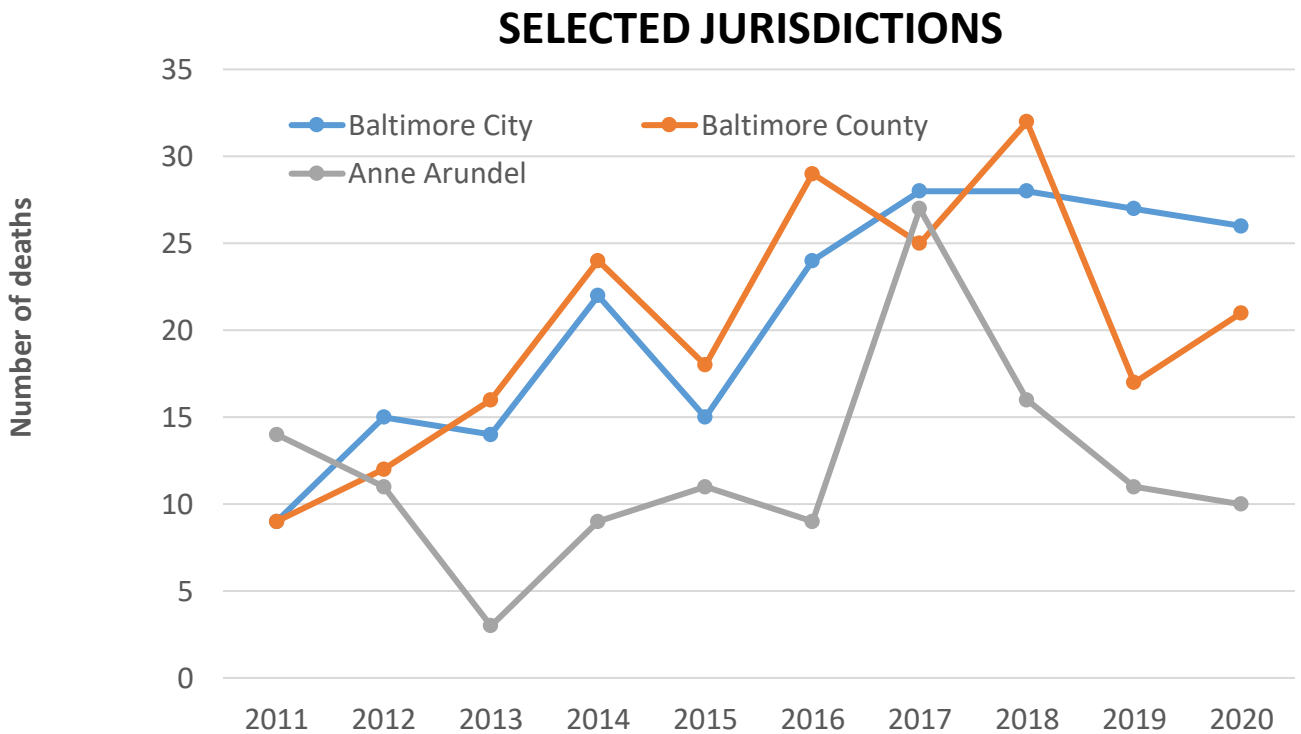
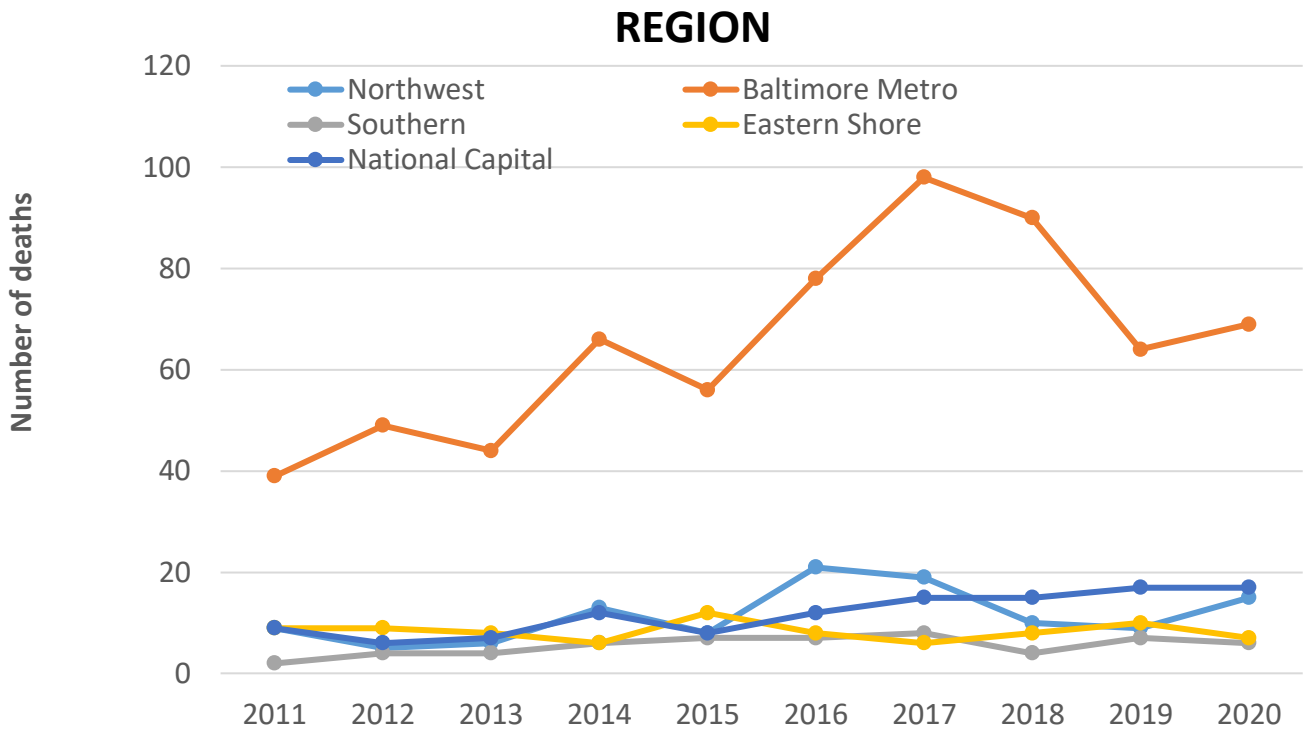


Figure 30. Number of Benzodiazepine-Related Deaths by Place of Occurrence, Maryland, 2011-2020.





## PHENCYCLIDINE-RELATED DEATHS

Figure 31. Number of Phencyclidine-Related Deaths Occurring in Maryland, 2011-2020.

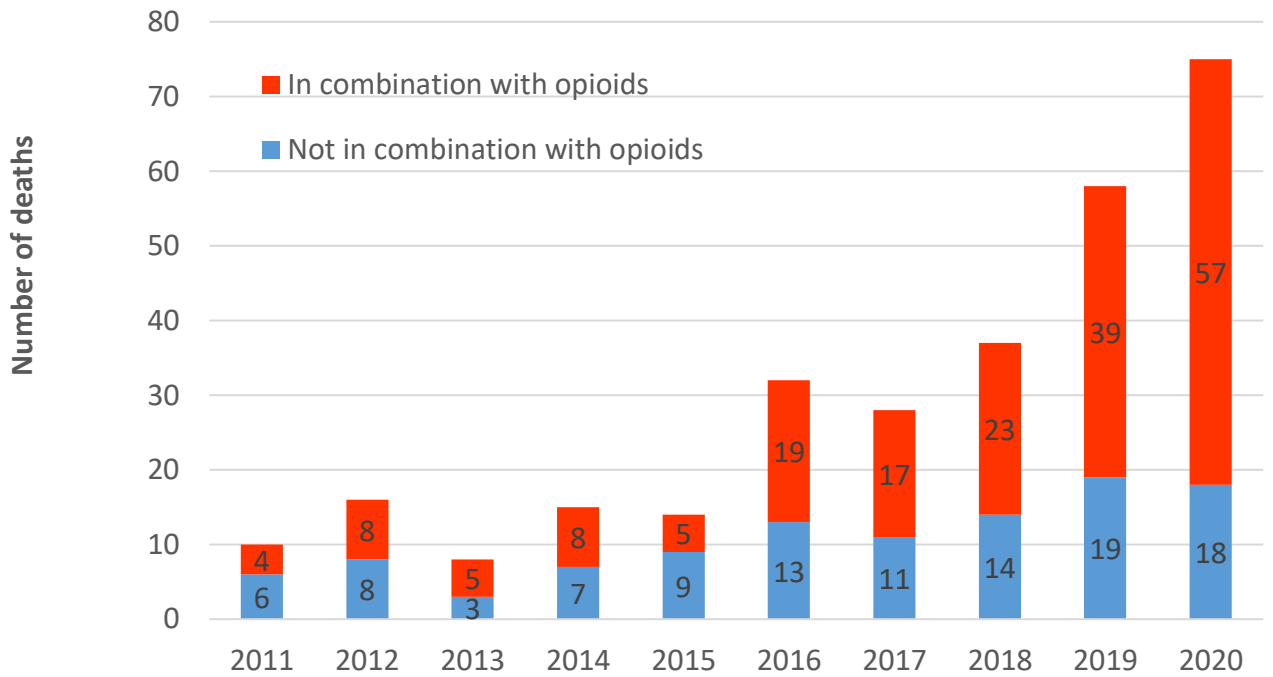


Figure 32. Number of Phencyclidine-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.

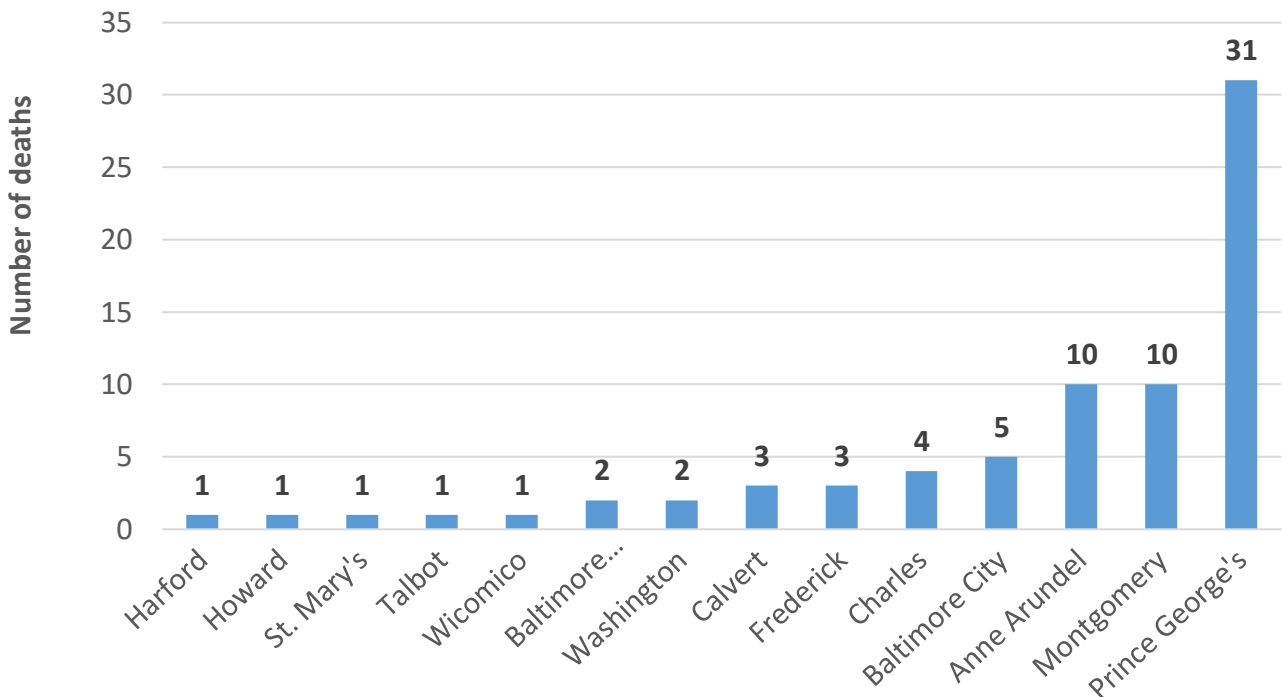
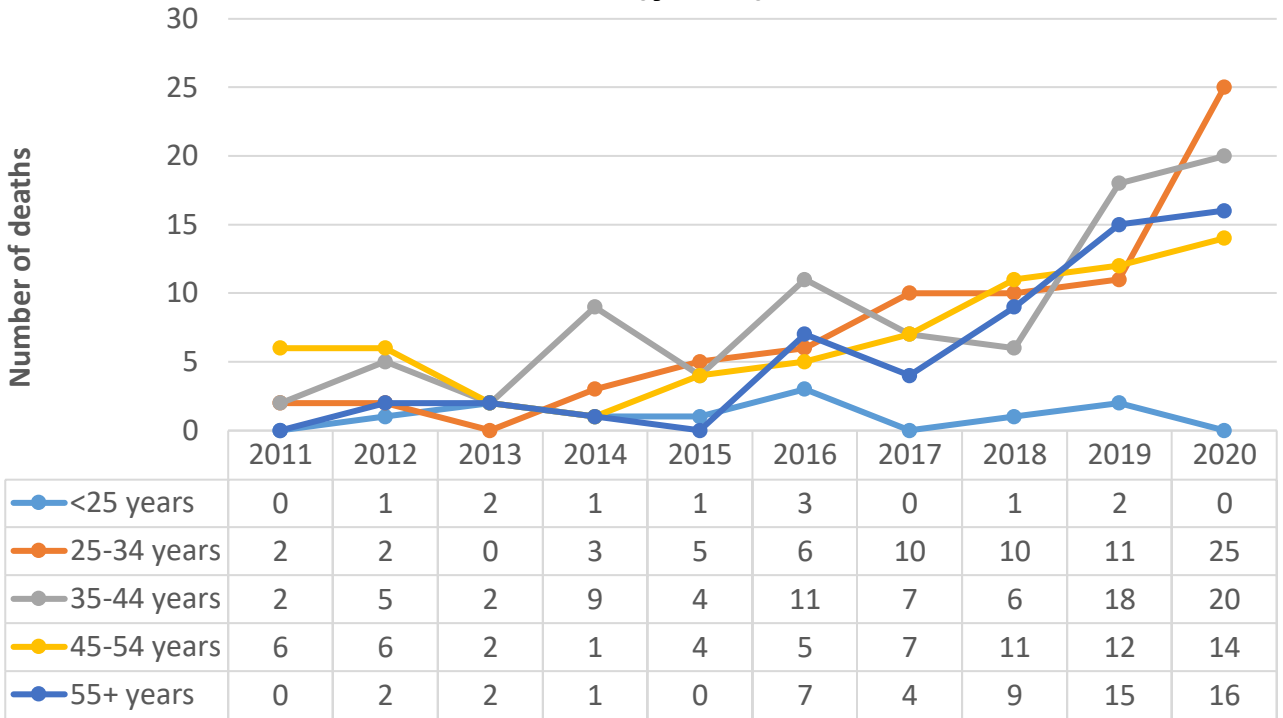
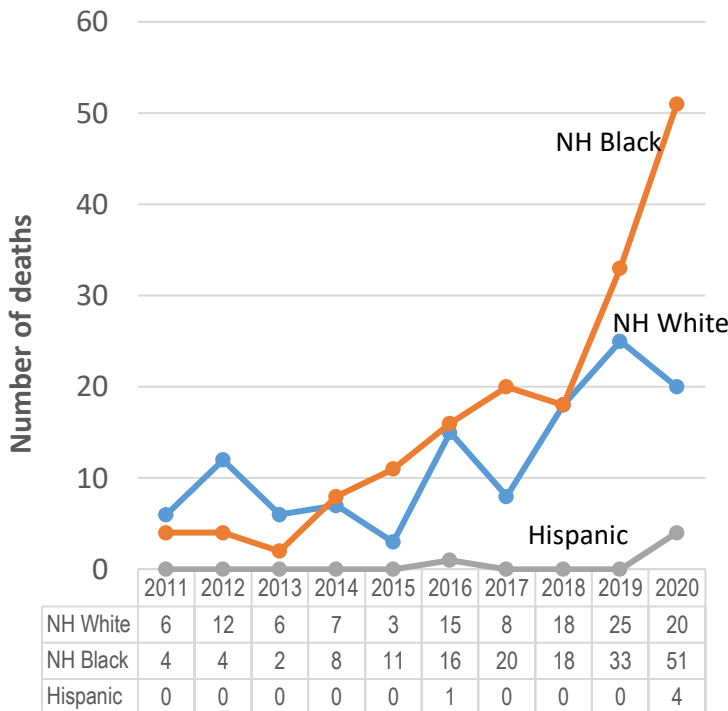


Figure 33. Number of Phencyclidine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

### AGE (years)



### RACE/ETHNICITY



### GENDER

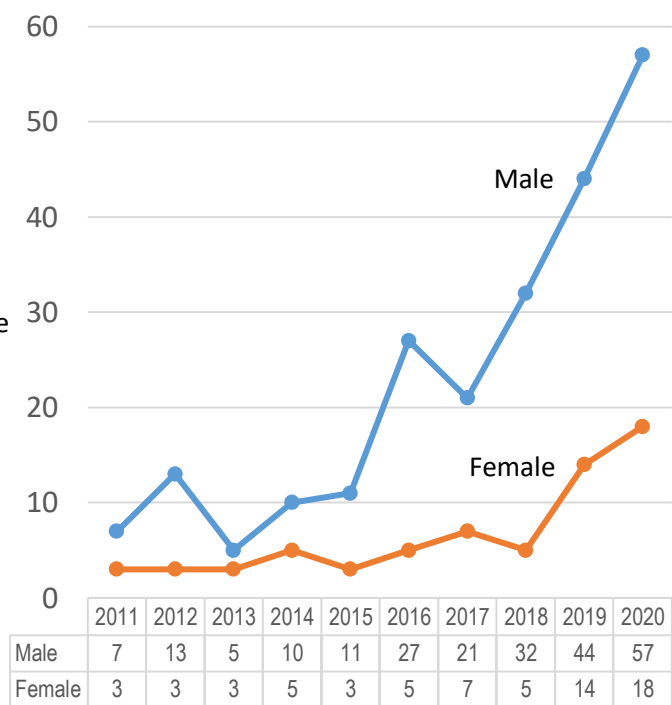
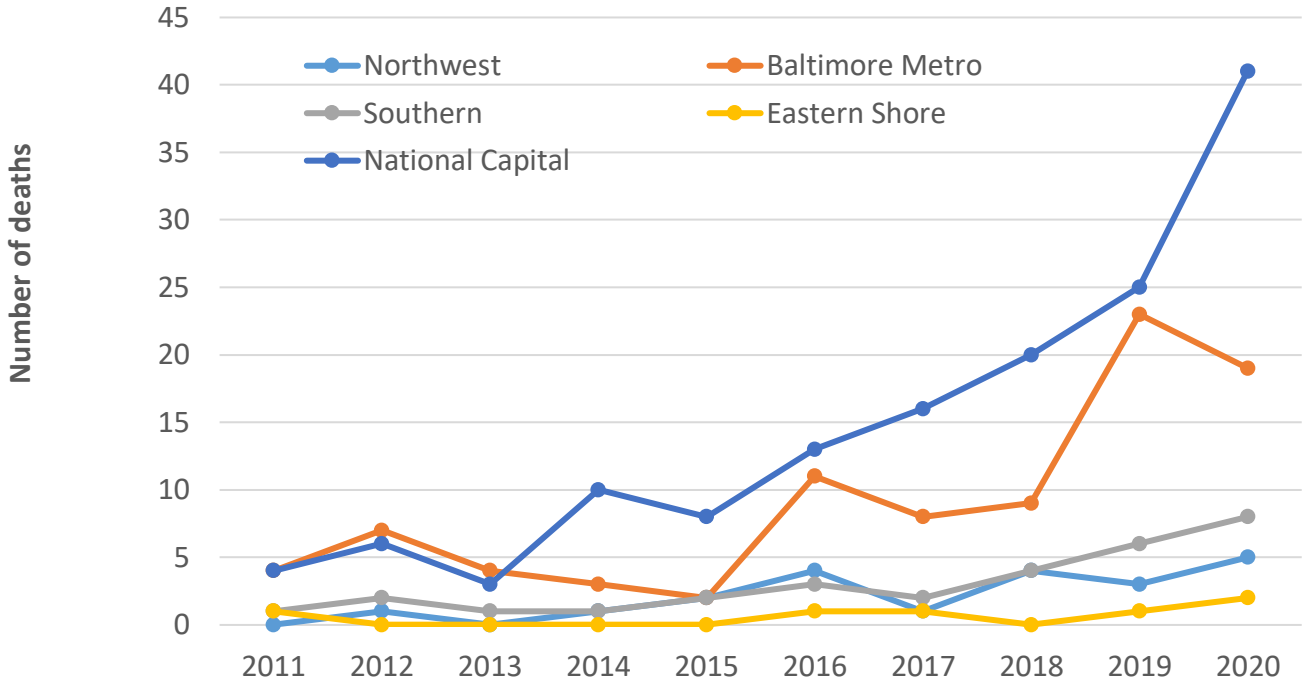
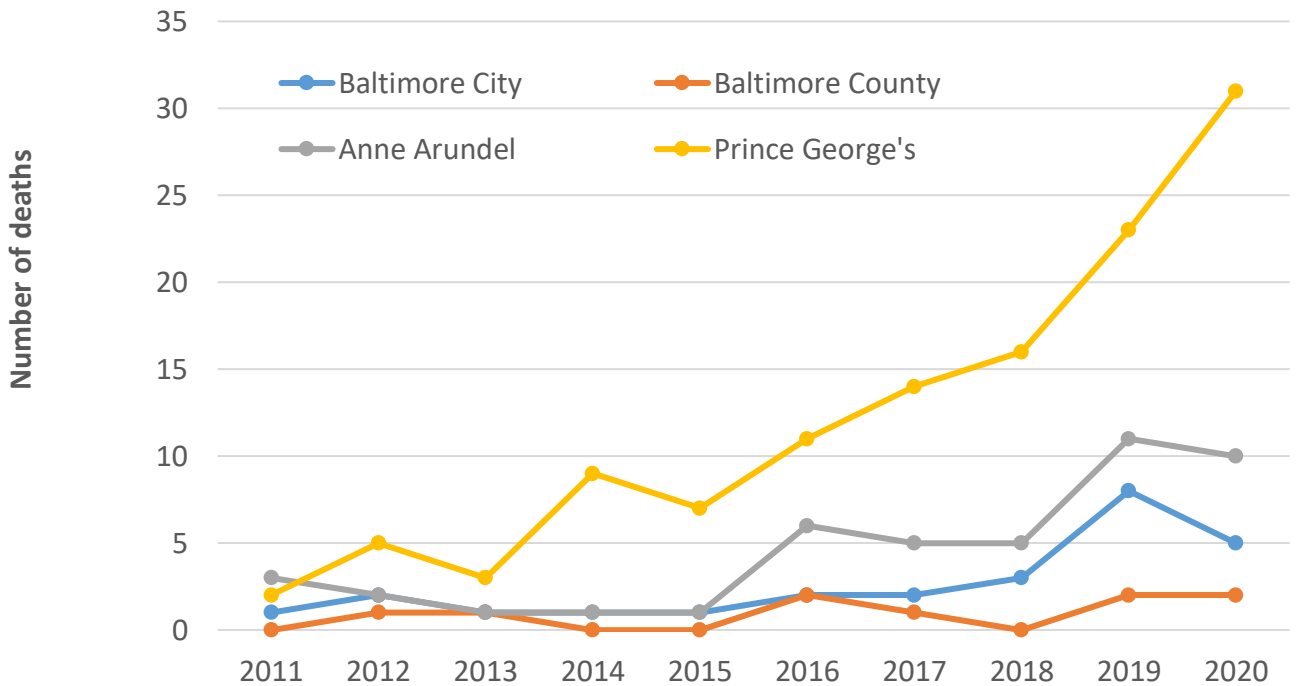


Figure 34. Number of Phencyclidine-Related Deaths by Place of Occurrence, Maryland, 2011-2020.

**REGION**

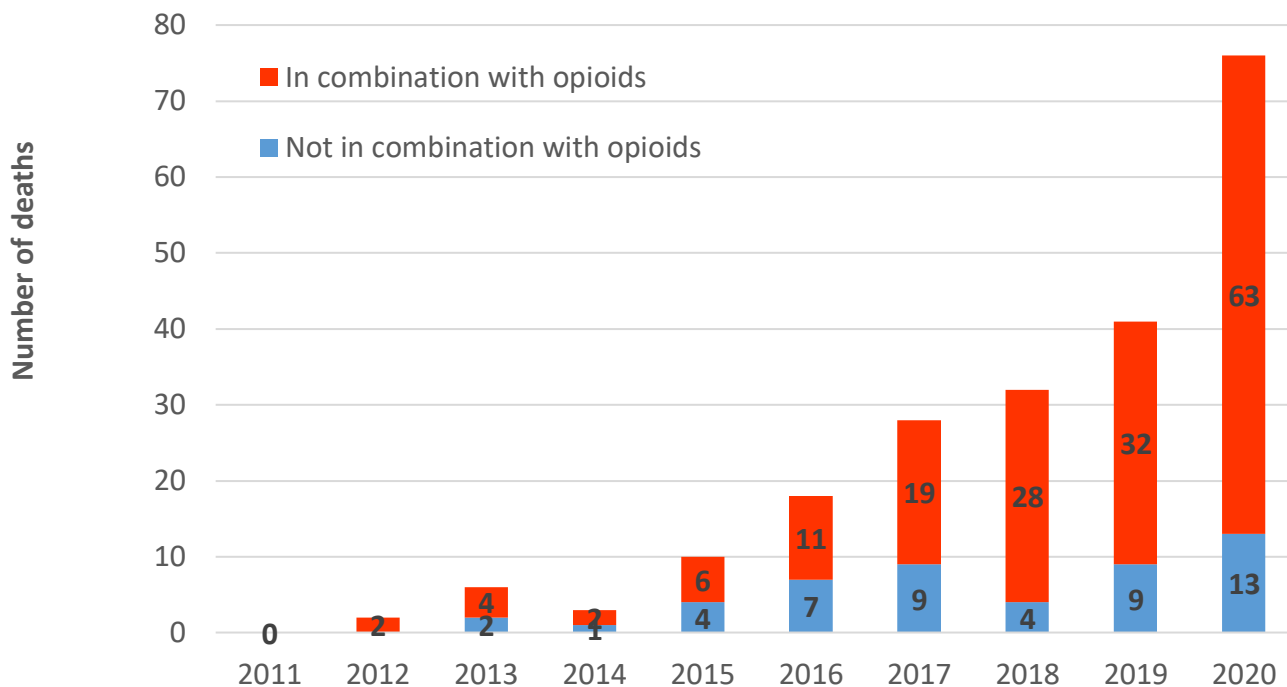


**SELECTED JURISDICTIONS**



# METHAMPHETAMINE-RELATED DEATHS

**Figure 35. Number of Methamphetamine-Related Deaths Occurring in Maryland, 2011-2020.**



**Figure 36. Number of Methamphetamine-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.**

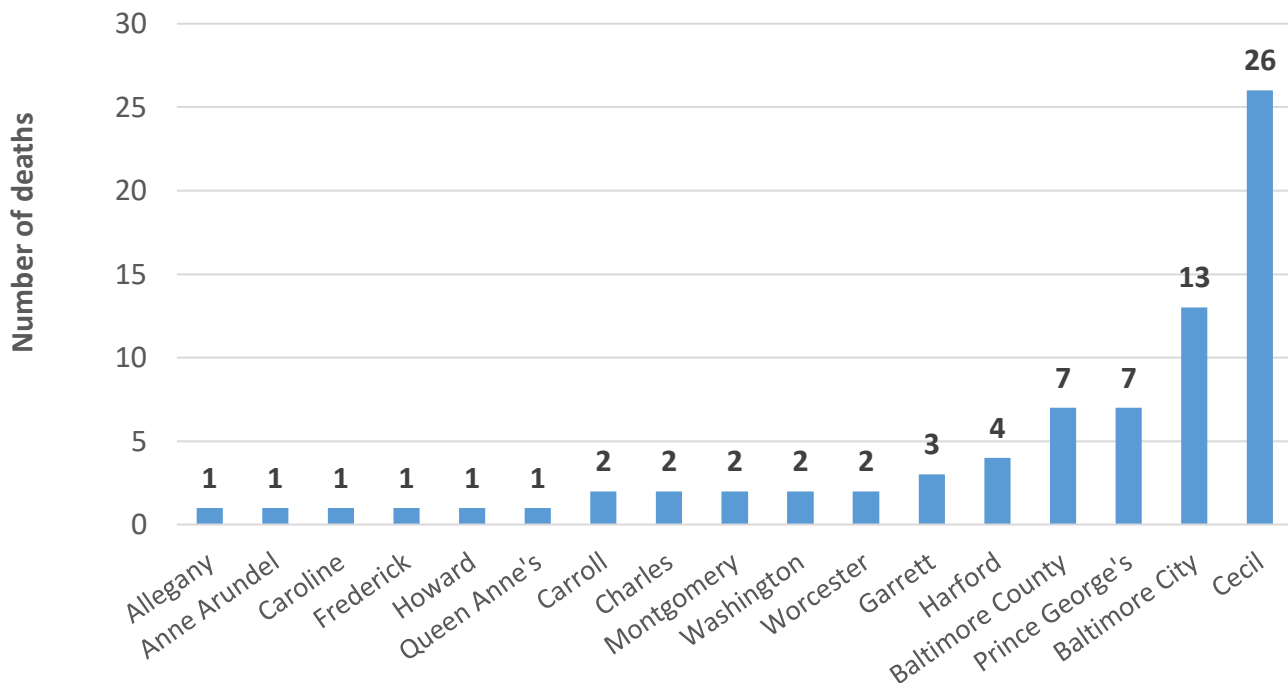
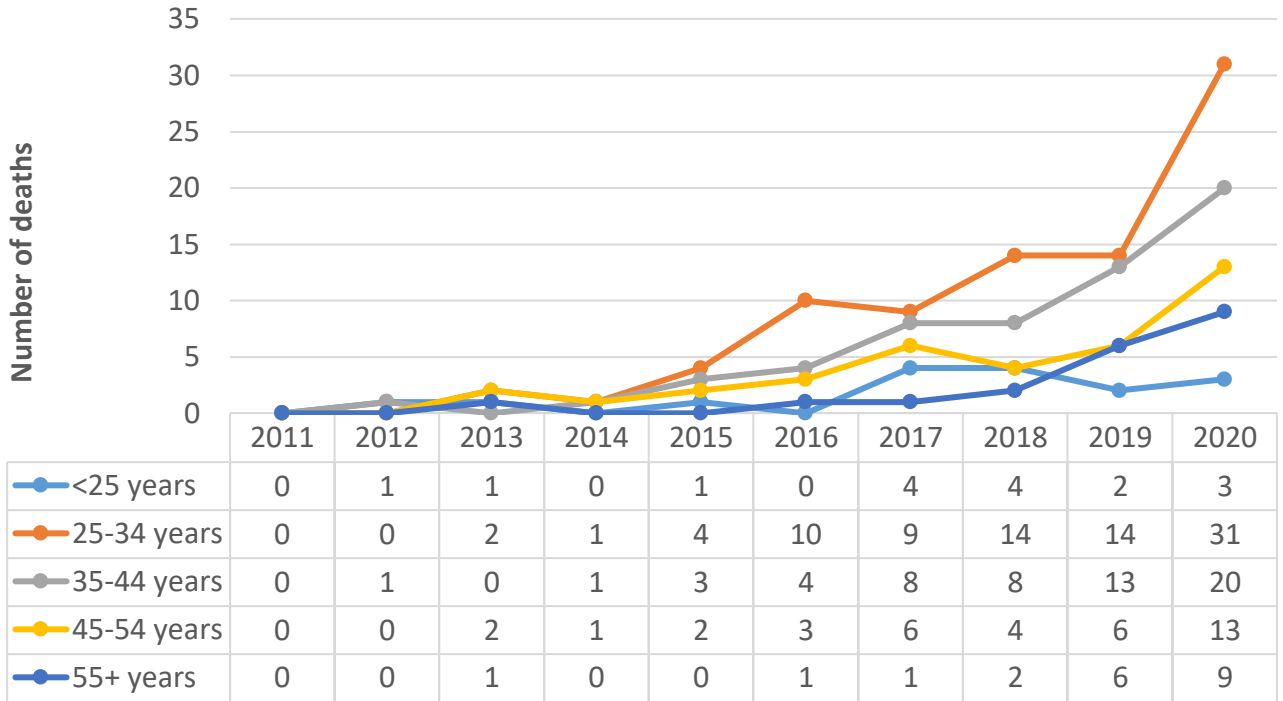
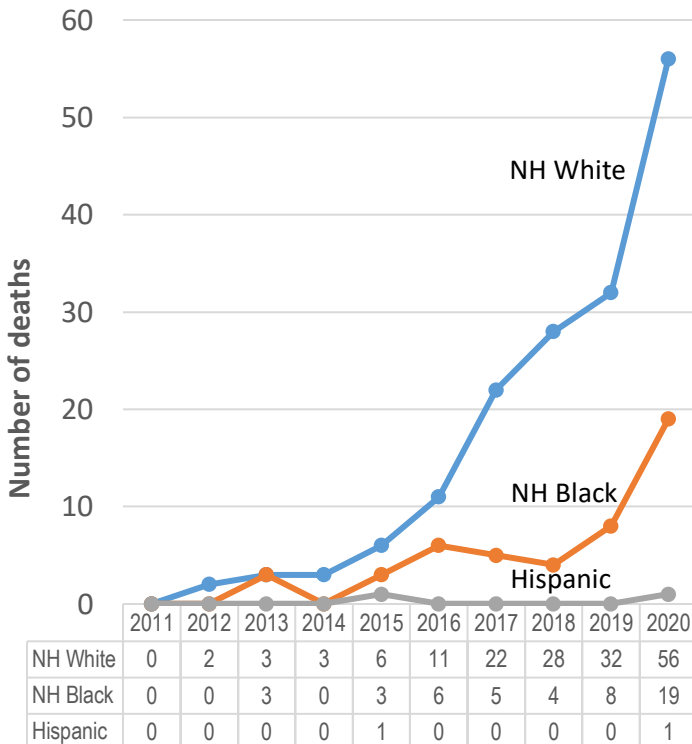


Figure 37. Number of Methamphetamine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.

**AGE (years)**



**RACE/ETHNICITY**



**GENDER**

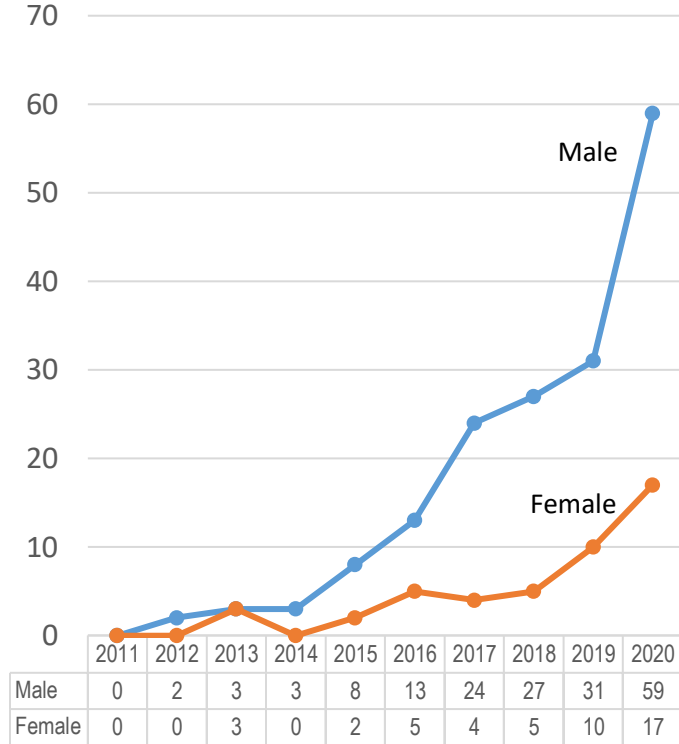
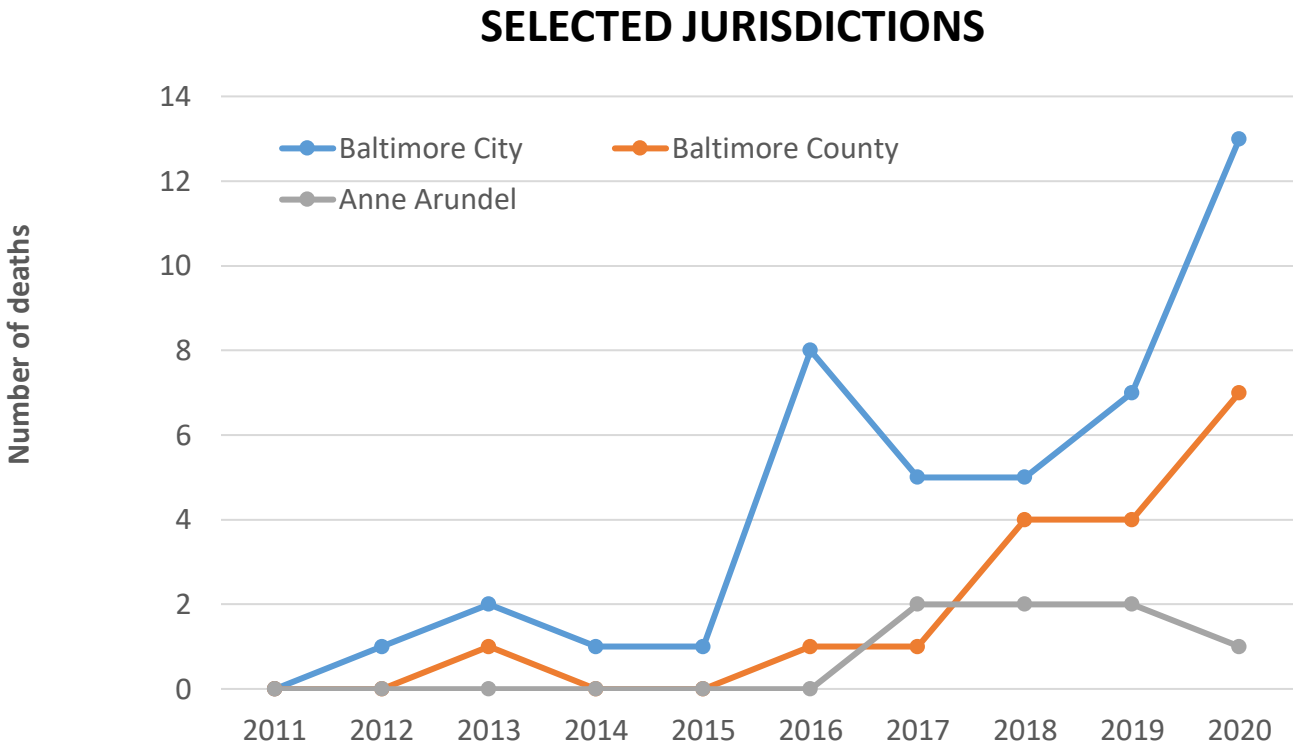
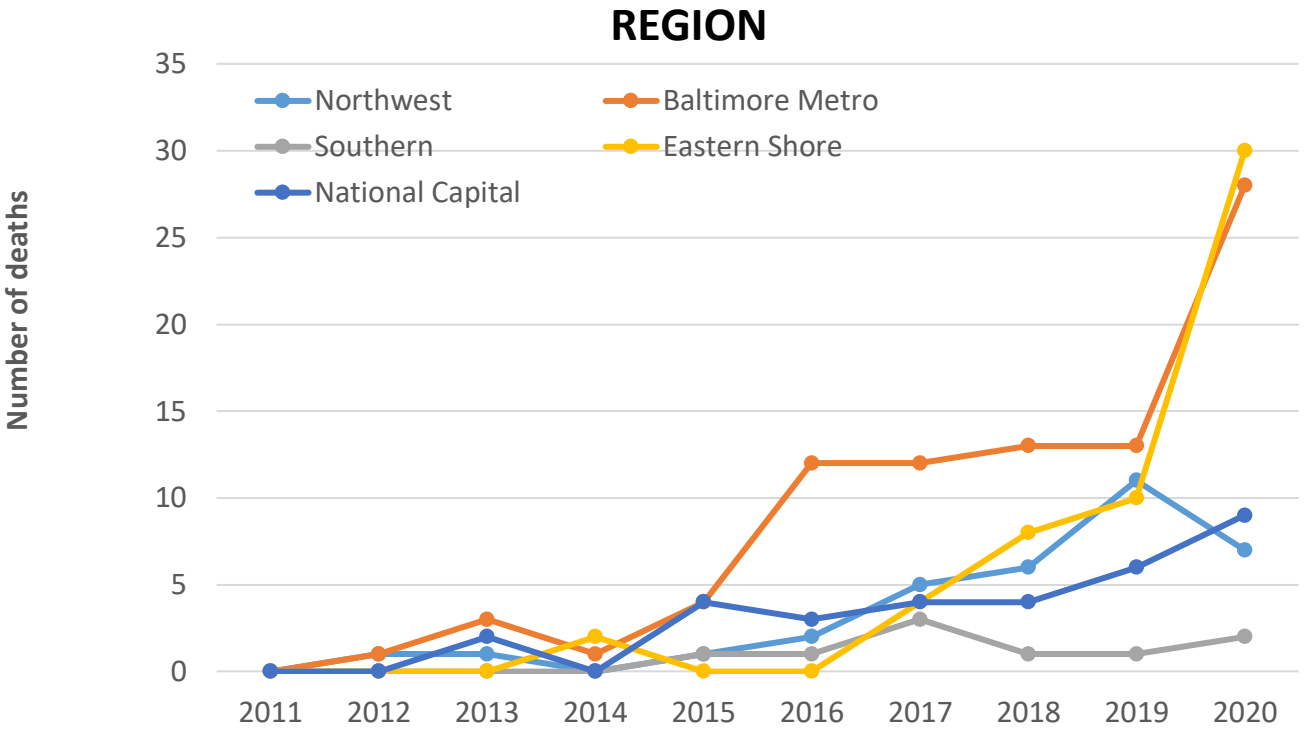


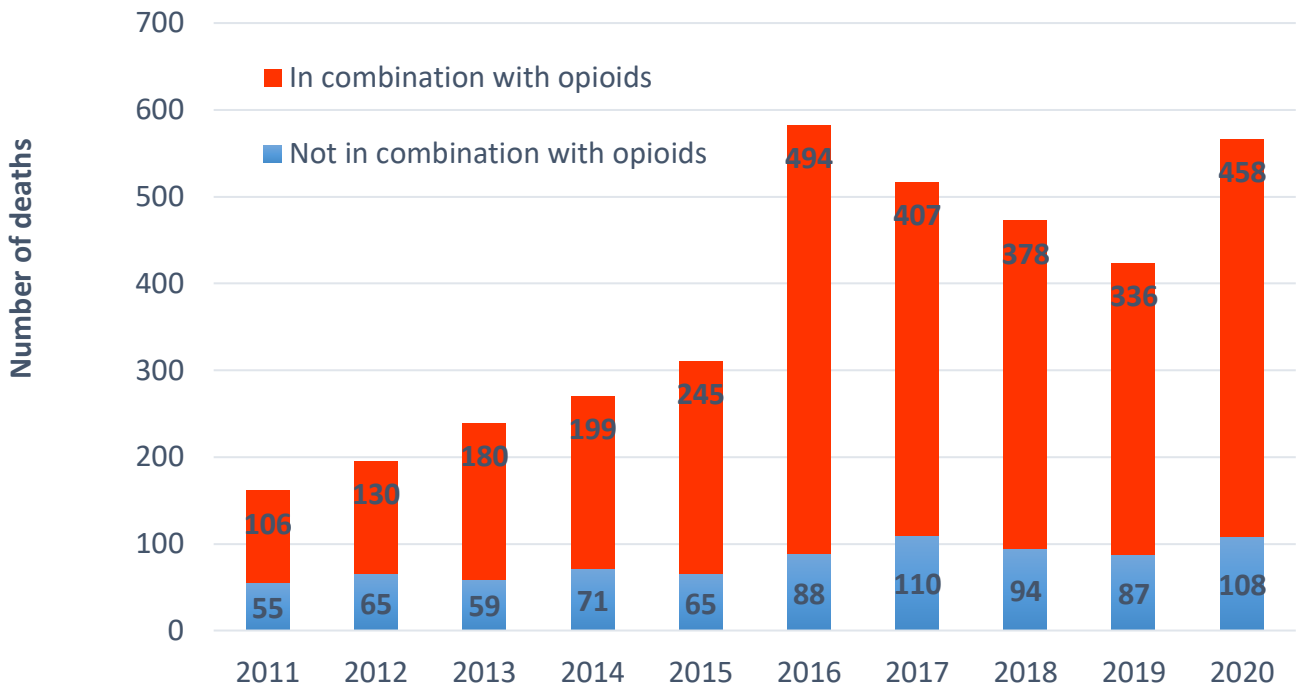
Figure 38. Number of Methamphetamine-Related Deaths by Place of Occurrence, Maryland, 2011-2020.





# ALCOHOL-RELATED DEATHS

**Figure 39. Number of Alcohol-Related Deaths Occurring in Maryland, 2011-2020.**



**Figure 40. Number of Alcohol-Related Deaths Occurring in Maryland by Place of Occurrence, 2020.**

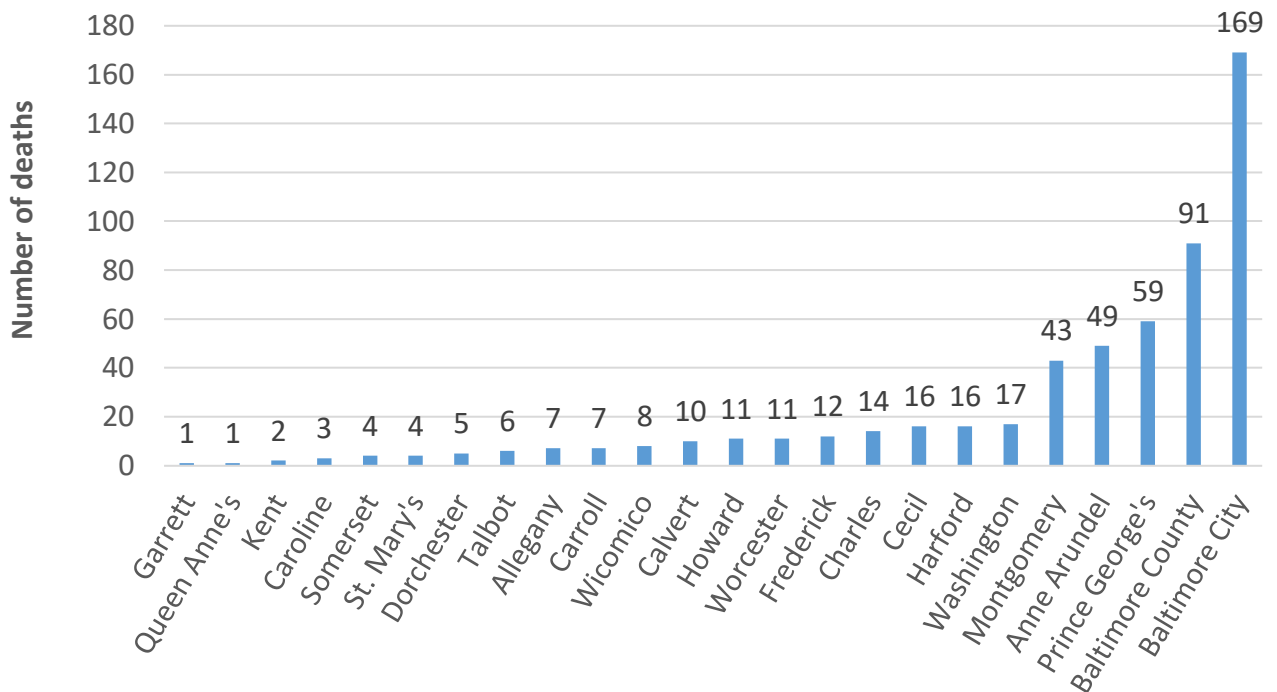
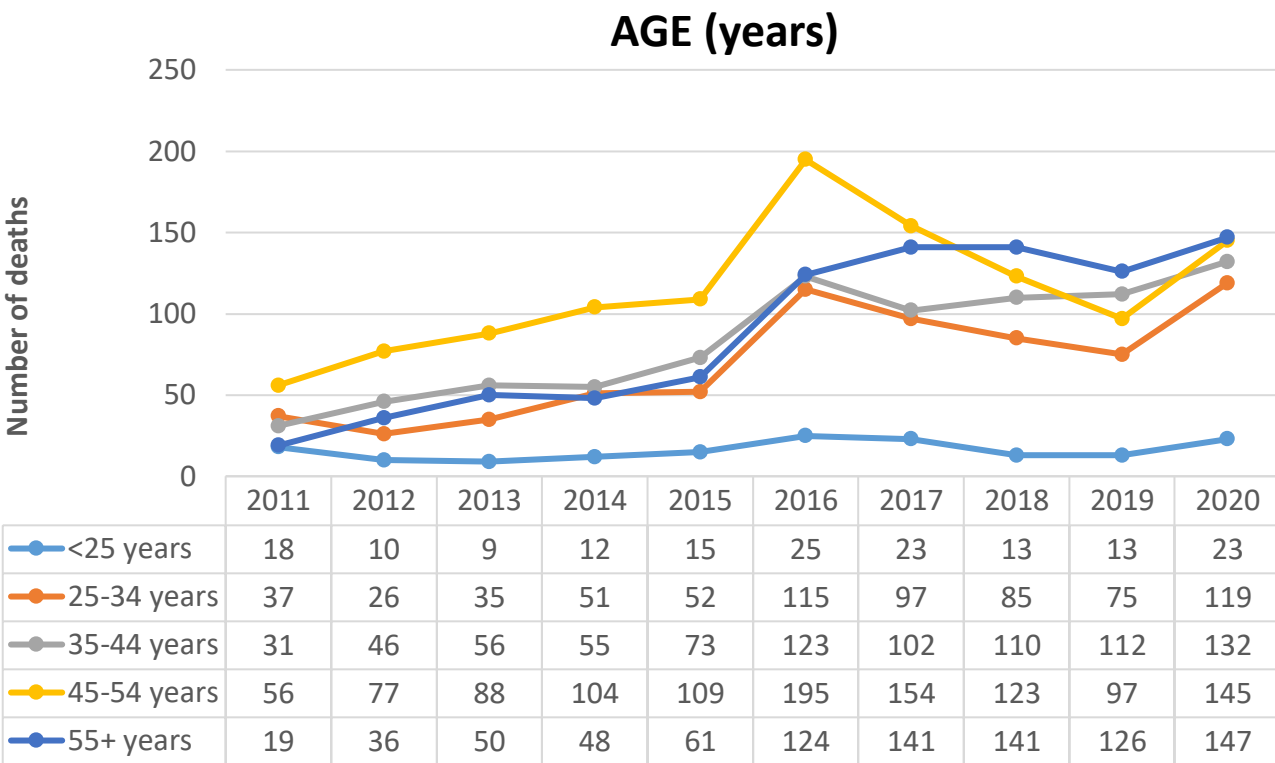
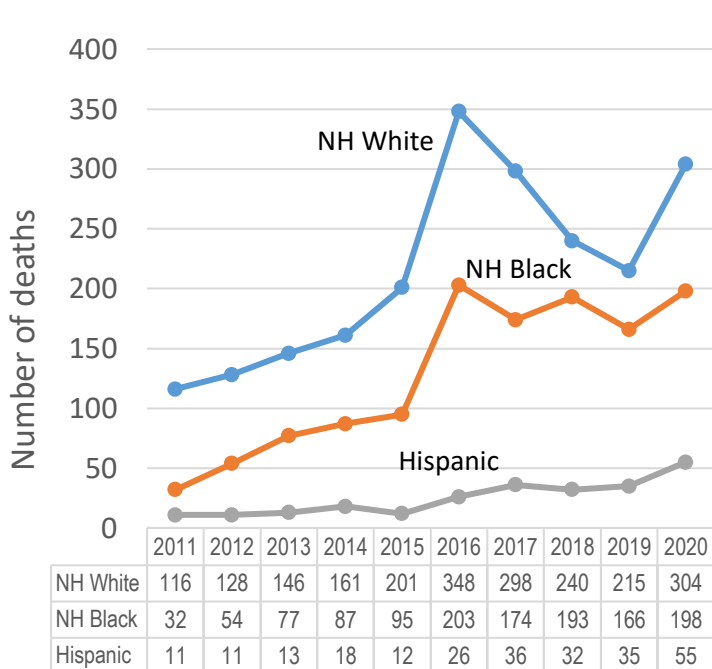


Figure 41. Number of Alcohol-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2011-2020.



### RACE/ETHNICITY



### GENDER

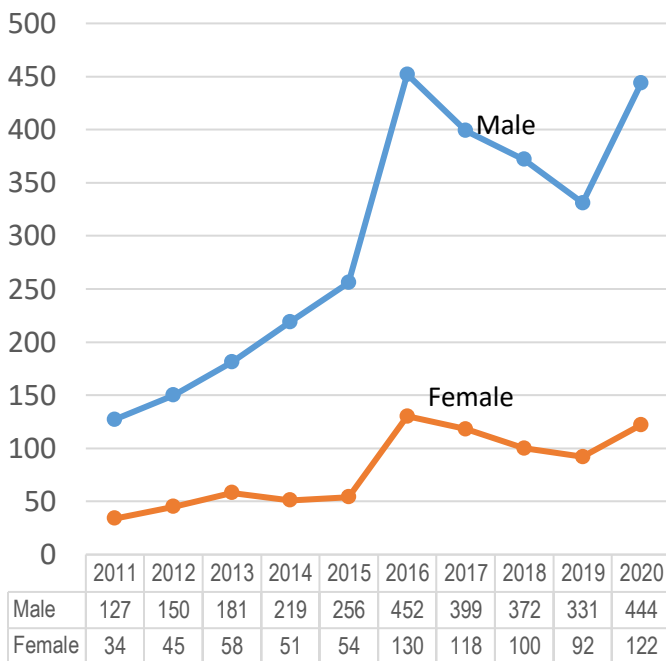
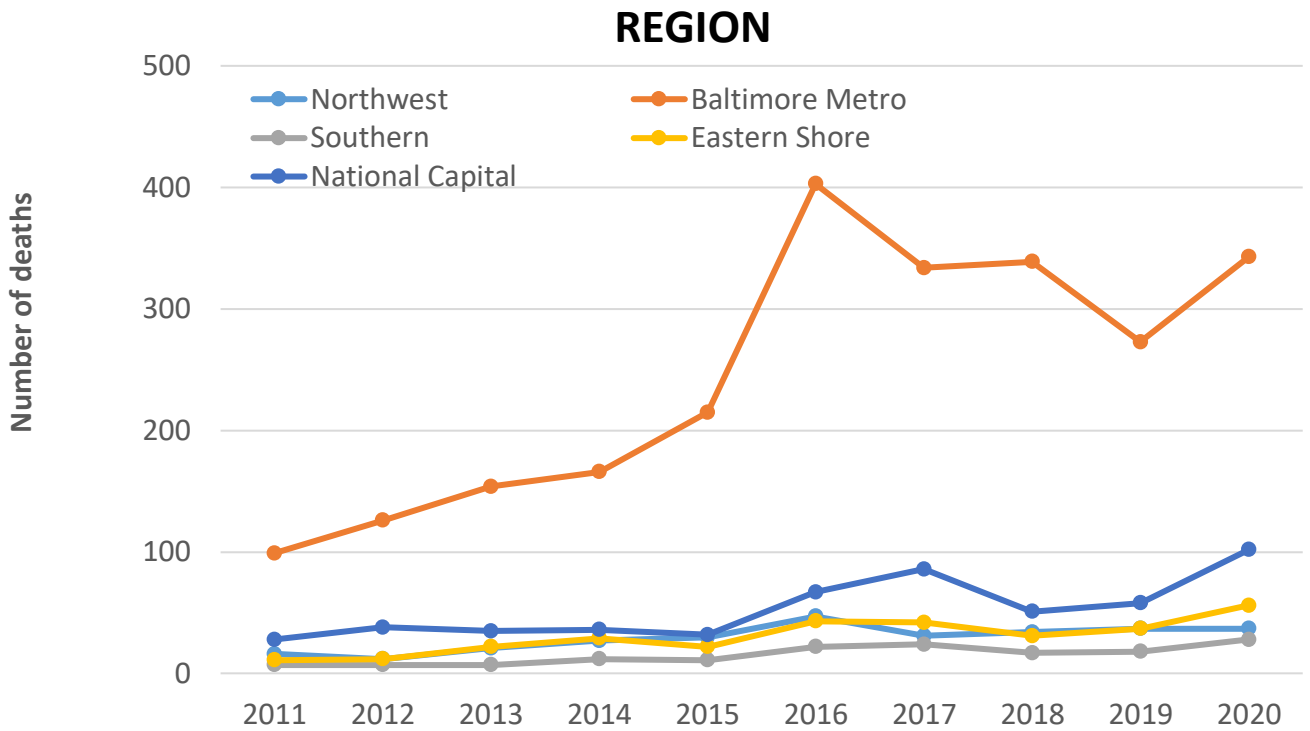
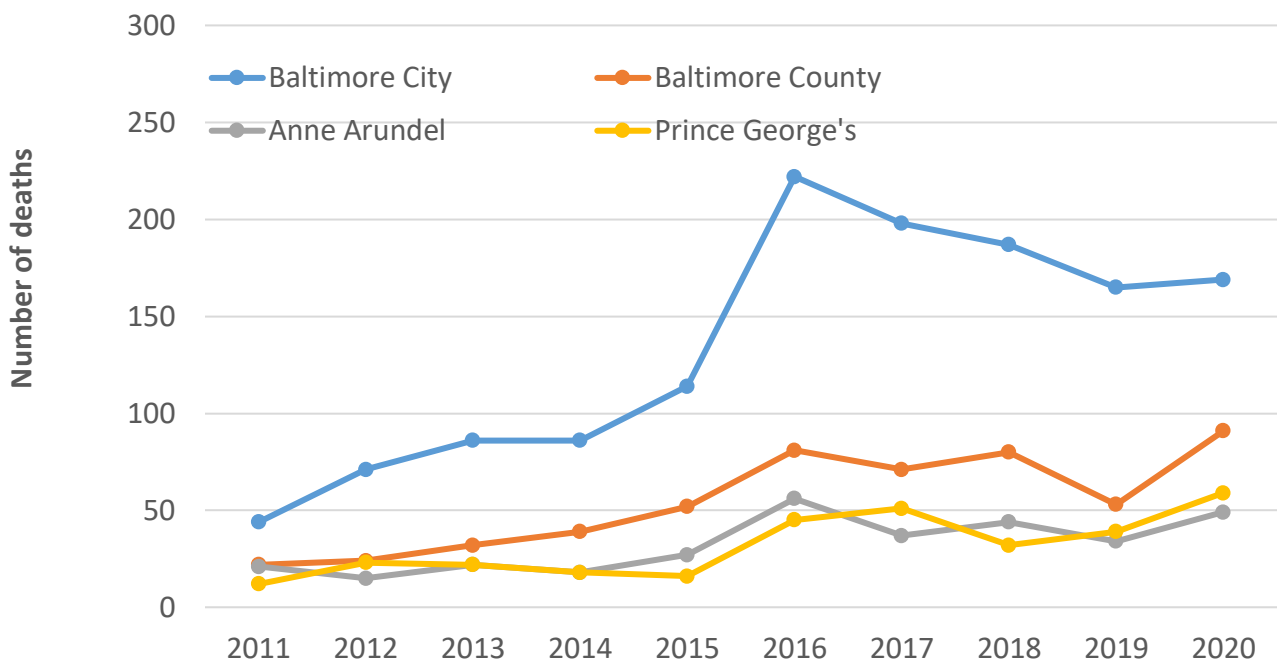


Figure 42. Number of Alcohol-Related Deaths by Place of Occurrence, Maryland, 2011-2020.



### SELECTED JURISDICTIONS



# DRUG COMBINATIONS

Figure 43. Number of Drug- and Alcohol-Related Intoxication Deaths Involving Opioids, 2011-2020.

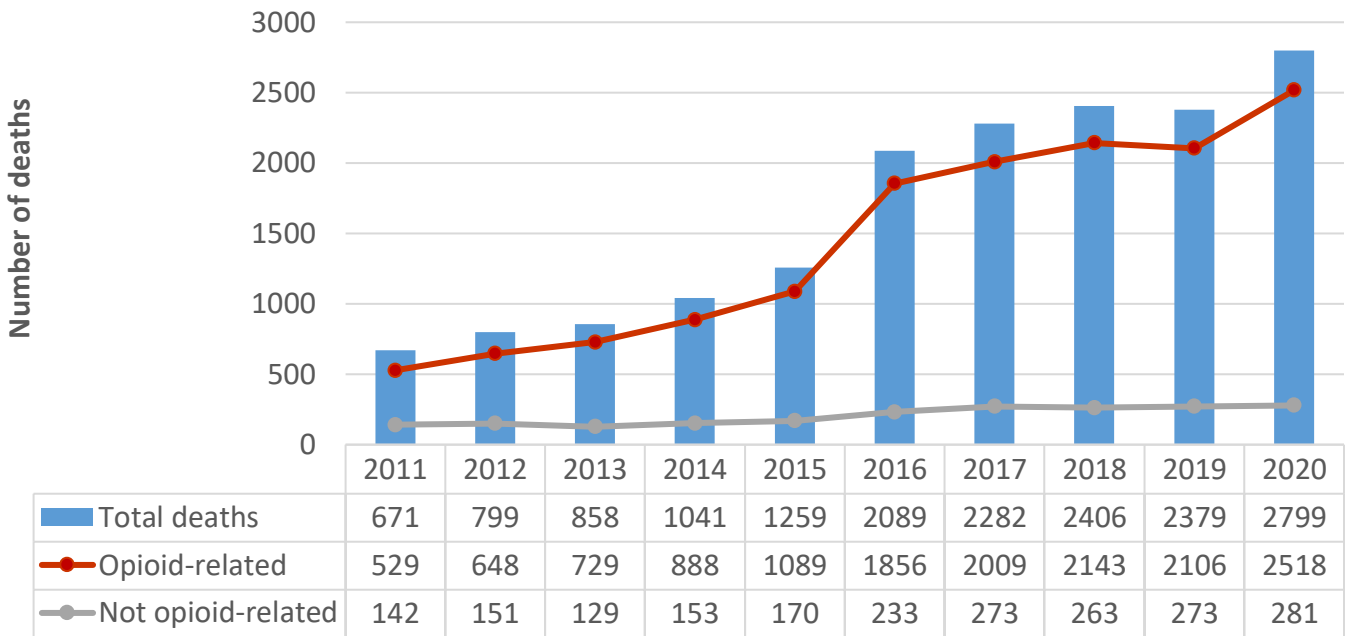


Figure 44. Number of Intoxication Deaths by Presence of Heroin and/or Fentanyl, 2011-2020.

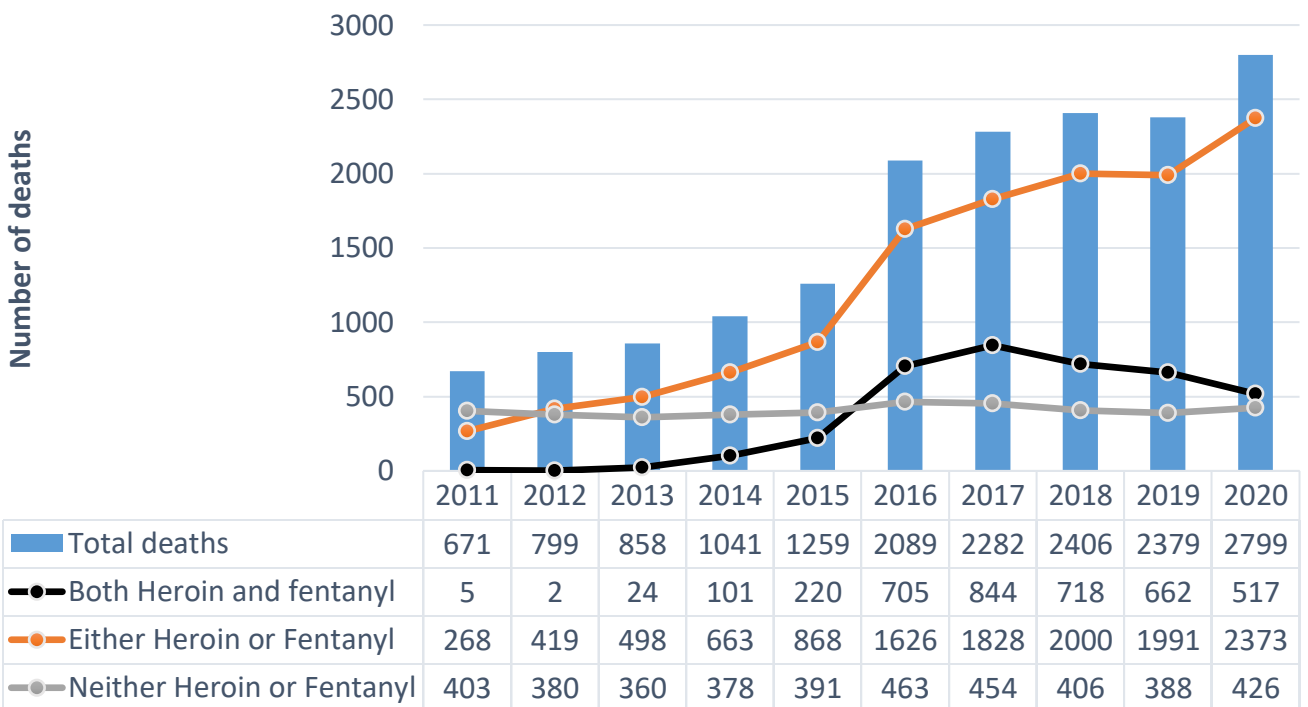


Figure 45. Number of Prescription Opioid-Related Intoxication Deaths Involving Heroin or Fentanyl, 2011-2020.

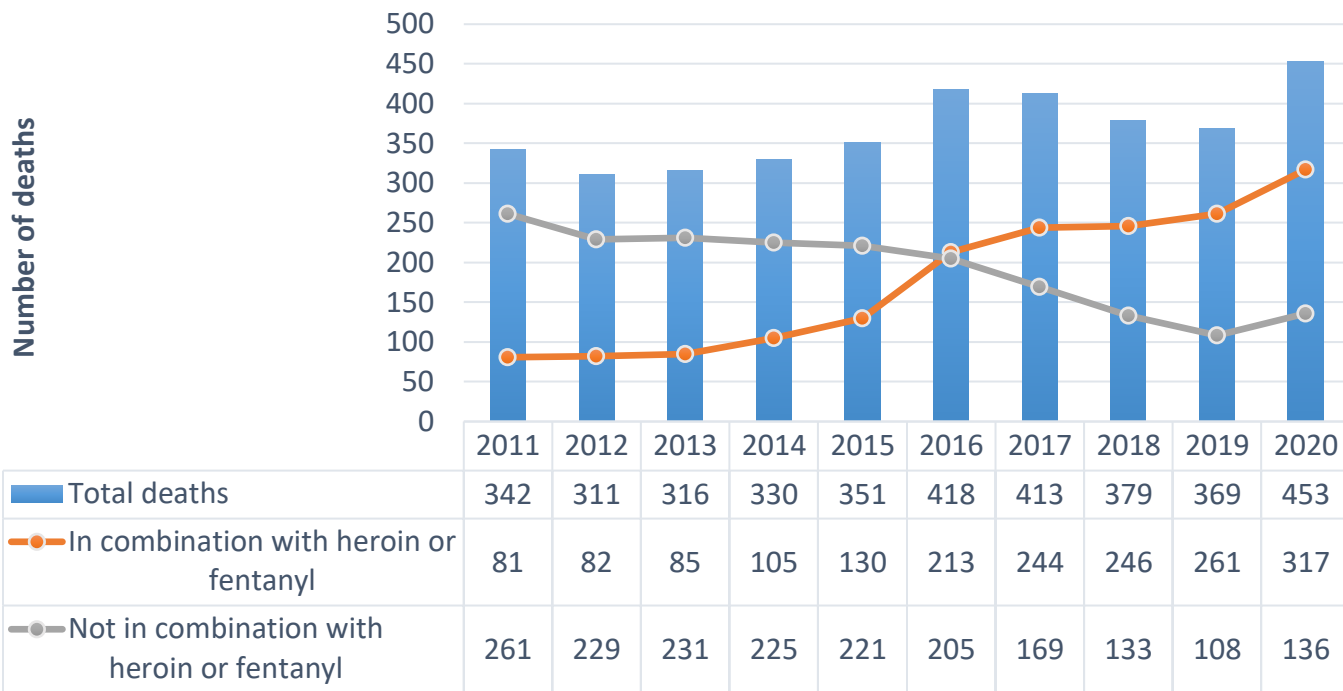


Figure 46. Number of Cocaine-Related Intoxication Deaths Involving Heroin or Fentanyl, 2011-2020.

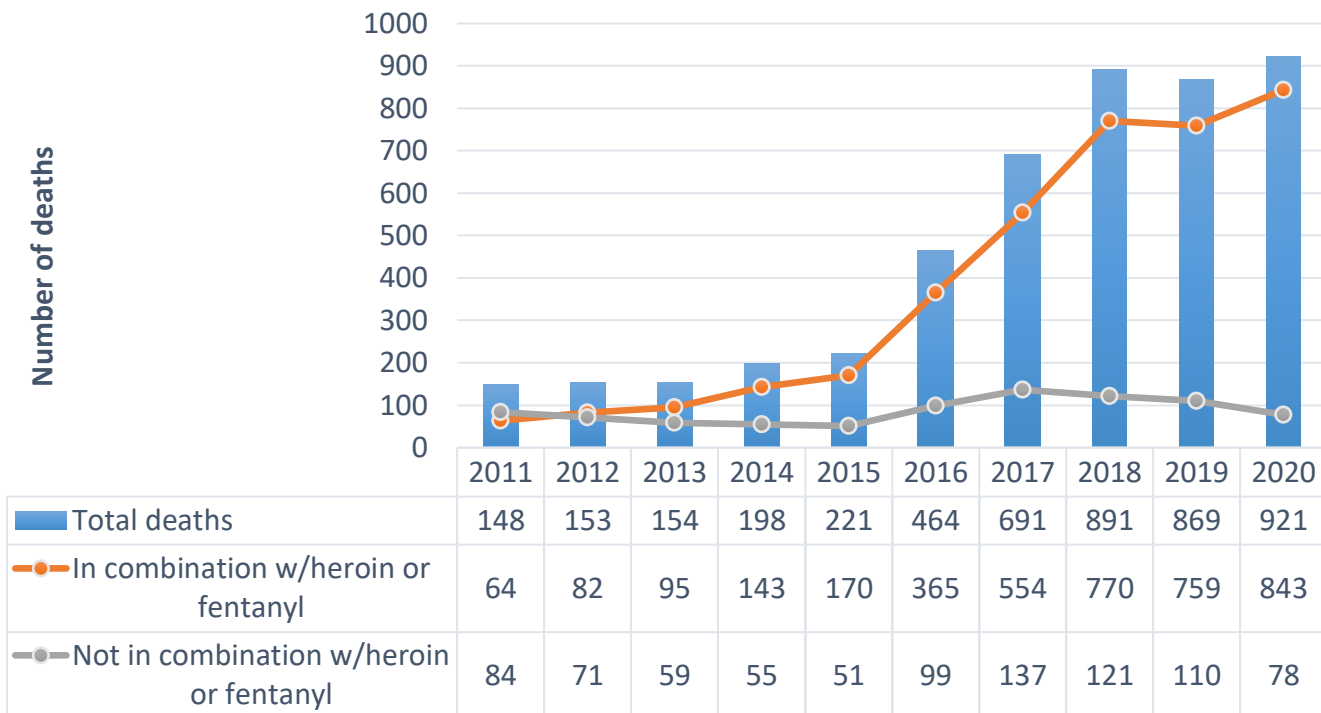


Figure 47. Number of Benzodiazepine-Related Intoxication Deaths Involving Heroin or Fentanyl, 2011-2020.

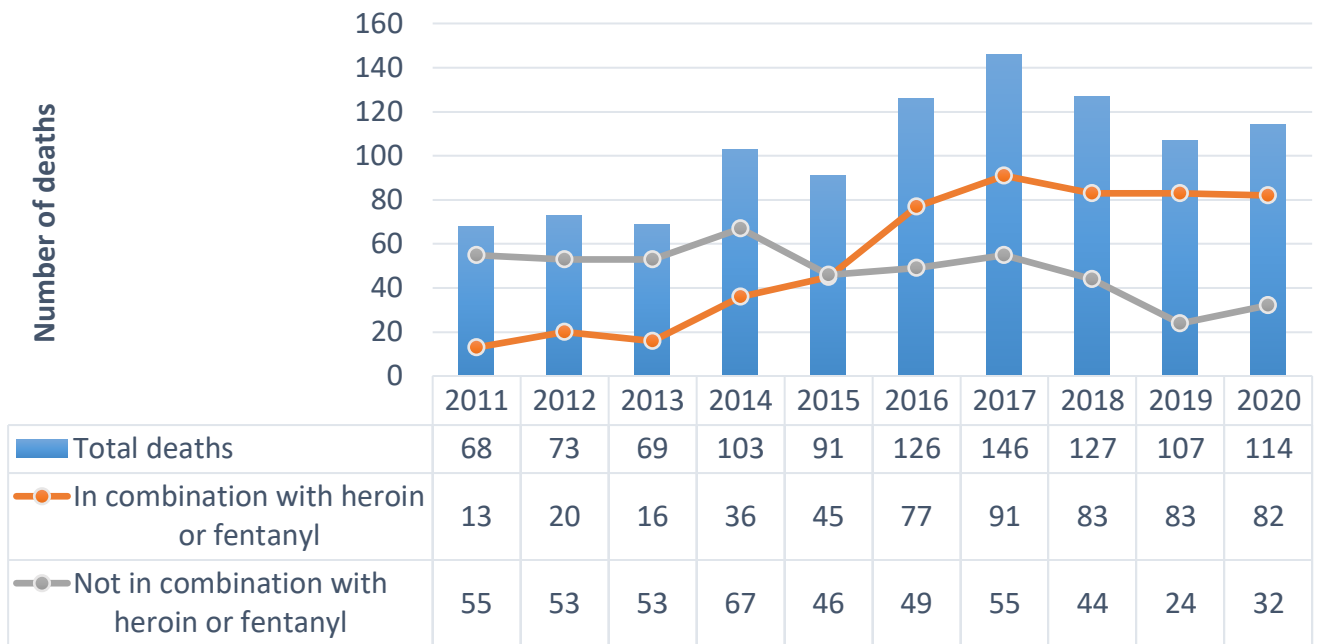
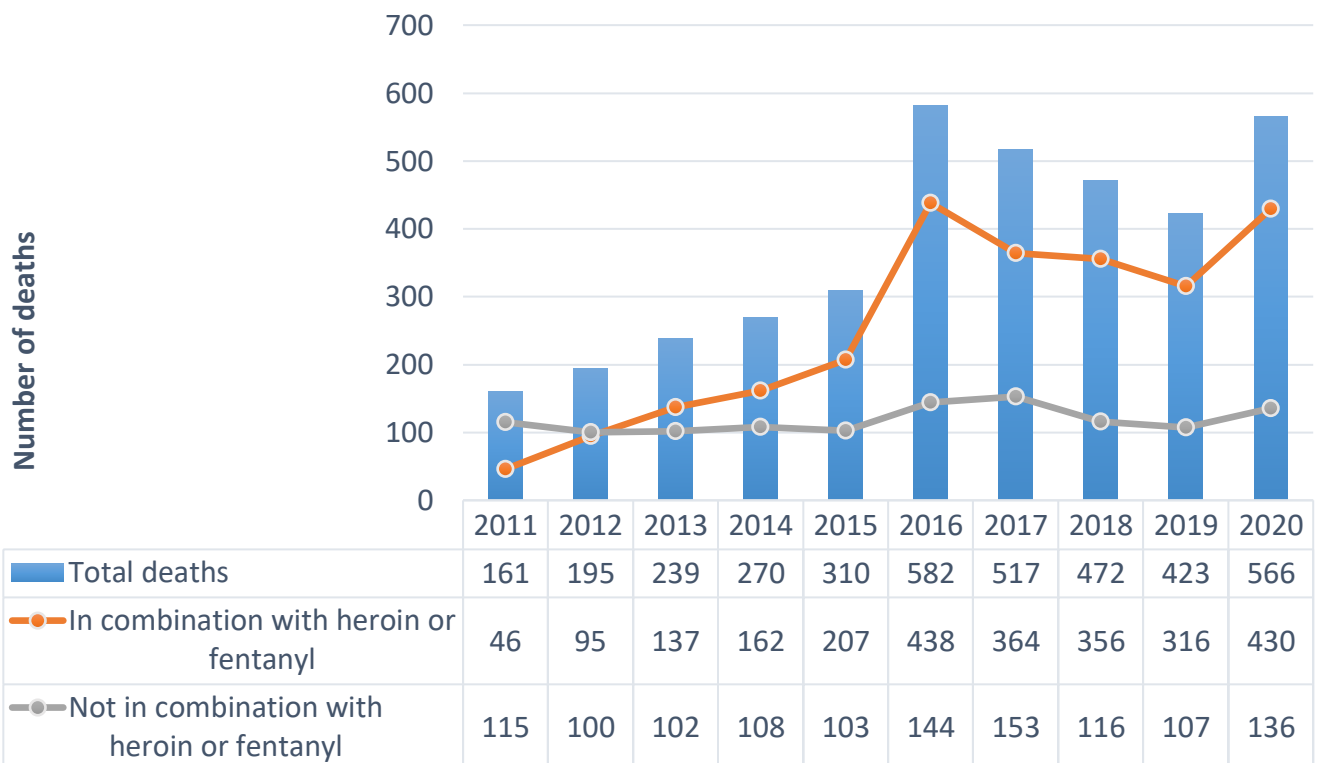


Figure 48. Number of Alcohol-Related Intoxication Deaths Involving Heroin or Fentanyl, 2011-2020.





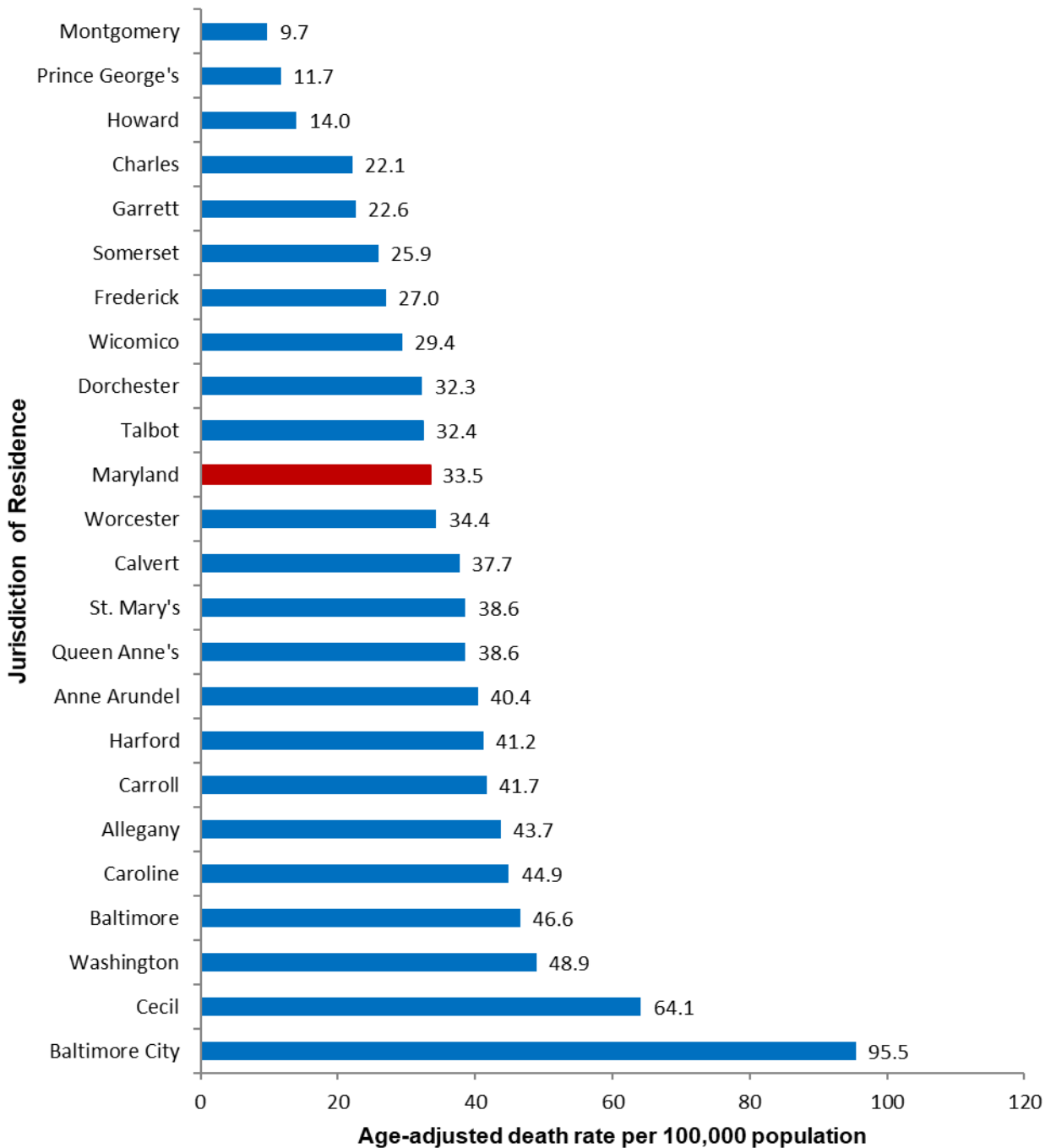
**Figure 49. Combinations of Substances Related to Unintentional Drug-and Alcohol-Related Intoxication Deaths, Maryland, 2020**

		Number	Percent
<b>Fentanyl</b>			
	Total	2342	
	In combination		
	With cocaine	835	35.7
	With heroin	517	22.1
	With alcohol	425	18.1
	With prescription opioids	309	13.2
	With benzodiazepines	81	3.5
	With methamphetamine	61	2.6
	With phencyclidine	54	2.3
<b>Cocaine</b>			
	Total	921	
	In combination		
	With fentanyl	835	90.7
	With heroin	208	22.6
	With alcohol	152	16.5
	With prescription opioids	110	11.9
	With benzodiazepines	25	2.7
	With phencyclidine	21	2.3
	With methamphetamine	18	2.0
<b>Heroin</b>			
	Total	548	
	In combination		
	With fentanyl	517	94.3
	With cocaine	208	38.0
	With prescription opioids	106	19.3
	With alcohol	64	11.7
	With benzodiazepines	27	4.9
	With phencyclidine	15	2.7
	With methamphetamine	12	2.2
<b>Prescription opioids</b>			
	Total	453	
	In combination		
	With fentanyl	309	68.2
	With cocaine	110	24.3
	With heroin	106	23.4
	With alcohol	55	12.1
	With benzodiazepines	43	9.5
	With methamphetamine	8	1.8
	With phencyclidine	4	0.9

**Figure 49. Combinations of Substances Related to Unintentional Drug-and Alcohol-Related Intoxication Deaths, Maryland, 2020 - Continued**

		Number	Percent
<b>Alcohol</b>			
	Total	566	
	In combination		
	With fentanyl	425	75.1
	With cocaine	152	26.9
	With heroin	64	11.3
	With prescription opioids	55	9.7
	With phencyclidine	20	3.5
	With benzodiazepines	18	3.2
	With methamphetamine	8	1.4
<b>Benzodiazepines</b>			
	Total	114	
	In combination		
	With fentanyl	81	71.1
	With prescription opioids	43	37.7
	With heroin	27	23.7
	With cocaine	25	21.9
	With alcohol	18	15.8
	With methamphetamine	3	2.6
	With phencyclidine	2	1.8
<b>Phencyclidine</b>			
	Total	75	
	In combination		
	With fentanyl	54	72.0
	With cocaine	21	28.0
	With alcohol	20	26.7
	With heroin	15	20.0
	With prescription opioids	4	5.3
	With benzodiazepines	2	2.7
	With methamphetamine	1	1.3
<b>Methamphetamine</b>			
	Total	76	
	In combination		
	With fentanyl	61	80.3
	With cocaine	18	23.7
	With heroin	12	15.8
	With alcohol	8	10.5
	With prescription opioids	8	10.5
	With benzodiazepines	3	3.9
	With phencyclidine	1	1.3

**Figure 50. Age-Adjusted Mortality Rates<sup>1,2</sup> for Total Unintentional Intoxication Deaths by Place of Residence,<sup>3</sup> Maryland, 2017-2019.**



<sup>1</sup>Age-adjusted to the 2000 U.S. standard population by the direct method.

<sup>2</sup>Since age-adjusted rates based on fewer than 20 deaths are considered unreliable, rates are only shown for jurisdictions with 20 or more intoxication deaths over the five-year period.

<sup>3</sup>Rates are based on place of residence, not place of occurrence.

# TABLES

**TABLE 1. TOTAL NUMBER OF DRUG AND ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	TOTAL INTOXICATION DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	671	799	858	1,041	1,259	2,089	2,282	2,406	2,379	2,799	16,583
NORTHWEST AREA .....	65	67	86	96	131	214	183	211	189	234	1,476
GARRETT .....	2	0	6	2	5	1	8	3	9	8	44
ALLEGANY .....	12	14	15	12	22	59	38	39	28	52	291
WASHINGTON .....	21	27	28	40	64	66	59	91	88	110	594
FREDERICK .....	30	26	37	42	40	88	78	78	64	64	547
BALTIMORE METRO AREA .....	420	519	557	678	841	1,402	1,549	1,731	1,652	1,860	11,209
BALTIMORE CITY .....	167	225	246	305	393	694	761	888	914	1,028	5,621
BALTIMORE COUNTY .....	107	119	144	170	220	336	367	388	350	394	2,595
ANNE ARUNDEL .....	79	83	78	101	112	195	214	241	208	251	1,562
CARROLL .....	8	29	24	38	40	47	55	72	56	46	415
HOWARD .....	21	24	29	21	26	46	51	41	37	57	353
HARFORD .....	38	39	36	43	50	84	101	101	87	84	663
NATIONAL CAPITAL AREA .....	86	104	111	128	140	231	283	216	251	342	1,892
MONTGOMERY .....	44	48	52	65	70	102	116	89	105	139	830
PRINCE GEORGE'S .....	42	56	59	63	70	129	167	127	146	203	1,062
SOUTHERN AREA .....	31	37	25	47	59	88	103	86	95	111	682
CALVERT .....	12	12	6	17	20	28	32	28	31	25	211
CHARLES .....	11	13	9	21	22	45	37	27	31	53	269
ST MARY'S .....	8	12	10	9	17	15	34	31	33	33	202
EASTERN SHORE AREA .....	69	72	79	92	88	154	164	162	192	252	1,324
CECIL .....	28	25	26	29	32	30	59	59	62	92	442
KENT .....	2	0	4	6	3	6	5	2	10	6	44
QUEEN ANNE'S .....	5	2	8	10	4	8	8	17	13	14	89
CAROLINE .....	11	4	2	7	3	10	11	7	12	17	84
TALBOT .....	1	5	7	4	5	10	11	10	14	17	84
DORCHESTER .....	2	5	5	0	1	6	12	7	11	17	66
WICOMICO .....	11	21	17	20	18	48	35	36	41	47	294
SOMERSET .....	3	3	4	3	6	8	4	8	10	16	65
WORCESTER .....	6	7	6	13	16	28	19	16	19	26	156

<sup>1</sup> Includes deaths that were the result of recent ingestion or exposure to alcohol or another type of drug, including heroin, cocaine, prescription opioids, benzodiazepines, and other prescribed and unprescribed drugs.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 2. TOTAL NUMBER OF OPIOID-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	OPIOID-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	529	648	729	888	1,089	1,856	2,009	2,143	2,106	2,518	14,515
NORTHWEST AREA .....	53	53	74	81	118	198	157	189	168	219	1,310
GARRETT .....	1	0	4	2	4	0	4	3	6	5	29
ALLEGANY .....	8	10	11	11	20	55	36	33	23	48	255
WASHINGTON .....	16	20	26	34	57	63	51	83	80	105	535
FREDERICK .....	28	23	33	34	37	80	66	70	59	61	491
BALTIMORE METRO AREA .....	341	437	485	591	742	1,262	1,404	1,578	1,508	1,715	10,063
BALTIMORE CITY .....	142	189	212	275	354	628	692	814	851	964	5,121
BALTIMORE COUNTY .....	93	104	125	146	195	305	323	352	316	356	2,315
ANNE ARUNDEL .....	53	68	67	85	89	169	198	218	183	226	1,356
CARROLL .....	7	27	21	29	34	44	51	68	51	43	375
HOWARD .....	18	17	26	18	25	40	47	36	34	52	313
HARFORD .....	28	32	34	38	45	76	93	90	73	74	583
NATIONAL CAPITAL AREA .....	52	66	78	101	104	190	215	158	188	268	1,420
MONTGOMERY .....	28	36	40	53	59	84	91	64	86	109	650
PRINCE GEORGE'S .....	24	30	38	48	45	106	124	94	102	159	770
SOUTHERN AREA .....	26	32	24	40	48	74	94	71	82	93	584
CALVERT .....	10	11	5	16	19	25	27	25	25	19	182
CHARLES .....	10	12	9	16	17	36	34	19	26	42	221
ST MARY'S .....	6	9	10	8	12	13	33	27	31	32	181
EASTERN SHORE AREA .....	57	60	68	75	77	132	139	147	160	223	1,138
CECIL .....	24	22	22	25	26	28	57	58	53	85	400
KENT .....	1	0	4	3	3	4	4	2	10	6	37
QUEEN ANNE'S .....	4	2	7	9	4	6	6	16	11	13	78
CAROLINE .....	8	4	2	7	3	9	8	7	11	15	74
TALBOT .....	1	3	6	4	5	10	8	10	13	13	73
DORCHESTER .....	2	5	5	0	1	5	10	6	10	15	59
WICOMICO .....	10	17	14	15	17	44	28	30	29	39	243
SOMERSET .....	3	2	4	2	4	6	3	8	9	13	54
WORCESTER .....	4	5	4	10	14	20	15	10	14	24	120

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of opioids.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 3. TOTAL NUMBER OF HEROIN-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	HEROIN-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	247	392	464	578	748	1,212	1,078	830	726	548	6,823
NORTHWEST AREA .....	23	27	40	53	80	119	72	68	58	44	584
GARRETT .....	1	0	2	1	3	0	1	1	1	1	11
ALLEGANY .....	3	6	3	5	13	34	14	15	9	14	116
WASHINGTON .....	8	11	14	21	38	39	22	29	25	20	227
FREDERICK .....	11	10	21	26	26	46	35	23	23	9	230
BALTIMORE METRO AREA .....	165	272	319	379	519	858	772	572	505	364	4,725
BALTIMORE CITY .....	76	131	150	192	260	454	380	286	279	205	2,413
BALTIMORE COUNTY .....	38	64	76	86	134	208	170	119	111	74	1,080
ANNE ARUNDEL .....	24	38	41	53	60	105	118	75	63	45	622
CARROLL .....	2	13	14	16	22	25	28	34	18	13	185
HOWARD .....	10	12	16	9	16	24	23	15	10	15	150
HARFORD .....	15	14	22	23	27	42	53	43	24	12	275
NATIONAL CAPITAL AREA .....	23	42	53	65	69	115	104	78	81	76	706
MONTGOMERY .....	11	22	28	33	37	48	52	34	39	32	336
PRINCE GEORGE'S .....	12	20	25	32	32	67	52	44	42	44	370
SOUTHERN AREA .....	15	18	13	28	29	48	45	31	30	24	281
CALVERT .....	5	6	2	13	15	17	17	8	10	3	96
CHARLES .....	6	5	5	10	8	22	16	11	12	15	110
ST MARY'S .....	4	7	6	5	6	9	12	12	8	6	75
EASTERN SHORE AREA .....	21	33	39	53	51	72	85	81	52	40	527
CECIL .....	8	11	11	15	16	19	37	40	16	12	185
KENT .....	1	0	0	2	1	1	1	0	3	2	11
QUEEN ANNE'S .....	2	2	5	7	1	4	5	8	3	4	41
CAROLINE .....	3	3	2	6	2	6	4	3	5	4	38
TALBOT .....	1	2	2	4	3	4	3	4	4	1	28
DORCHESTER .....	1	3	3	0	1	3	4	3	5	2	25
WICOMICO .....	3	9	11	12	13	21	20	12	9	8	118
SOMERSET .....	1	2	1	1	3	3	2	5	1	1	20
WORCESTER .....	1	1	4	6	11	11	9	6	6	6	61

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent heroin use.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 4. TOTAL NUMBER OF PRESCRIPTION OPIOID-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE,  
2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	PRESCRIPTION OPIOID-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	342	311	316	330	351	418	413	379	369	453	3,682
NORTHWEST AREA .....	38	30	35	33	39	56	35	34	33	38	371
GARRETT .....	1	0	2	2	1	0	1	1	1	1	10
ALLEGANY .....	5	5	8	6	6	15	9	5	5	8	72
WASHINGTON .....	11	9	11	16	20	23	8	19	17	18	152
FREDERICK .....	21	16	14	9	12	18	17	9	10	11	137
BALTIMORE METRO AREA .....	212	196	207	217	233	265	298	272	258	325	2,483
BALTIMORE CITY .....	82	74	86	84	105	113	123	128	134	168	1,097
BALTIMORE COUNTY .....	68	47	54	59	62	67	87	71	60	71	646
ANNE ARUNDEL .....	33	33	28	32	27	48	43	36	27	40	347
CARROLL .....	5	17	12	15	14	15	13	16	13	16	136
HOWARD .....	9	5	13	7	9	6	13	2	9	11	84
HARFORD .....	15	20	14	20	16	16	19	19	15	19	173
NATIONAL CAPITAL AREA .....	35	29	30	35	36	42	33	27	28	37	332
MONTGOMERY .....	20	18	16	19	23	26	19	16	15	16	188
PRINCE GEORGE'S .....	15	11	14	16	13	16	14	11	13	21	144
SOUTHERN AREA .....	15	18	12	19	19	25	26	22	23	24	203
CALVERT .....	7	6	3	7	6	11	5	6	5	5	61
CHARLES .....	5	7	5	9	8	10	11	8	7	8	78
ST MARY'S .....	3	5	4	3	5	4	10	8	11	11	64
EASTERN SHORE AREA .....	42	38	32	26	24	30	21	24	27	29	293
CECIL .....	20	18	12	12	10	8	8	5	6	10	109
KENT .....	1	0	4	2	2	0	2	0	0	0	11
QUEEN ANNE'S .....	2	0	3	3	3	2	2	4	0	3	22
CAROLINE .....	5	1	0	1	0	4	1	1	3	3	19
TALBOT .....	0	1	4	0	2	3	4	2	5	2	23
DORCHESTER .....	1	3	3	0	0	2	2	2	3	0	16
WICOMICO .....	7	9	4	3	5	7	0	5	5	7	52
SOMERSET .....	3	2	2	1	1	0	1	2	2	1	15
WORCESTER .....	3	4	0	4	1	4	1	3	3	3	26

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of one or more prescription opioids.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.



**TABLE 5. TOTAL NUMBER OF OXYCODONE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	OXYCODONE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	118	99	86	120	104	157	122	103	124	108	1,141
NORTHWEST AREA .....	11	13	12	10	11	25	16	13	18	15	144
GARRETT .....	0	0	1	0	0	0	0	0	1	1	3
ALLEGANY .....	0	2	3	3	2	7	3	2	2	5	29
WASHINGTON .....	5	2	5	5	6	11	2	7	9	2	54
FREDERICK .....	6	9	3	2	3	7	11	4	6	7	58
BALTIMORE METRO AREA .....	63	51	44	69	56	77	73	67	64	59	623
BALTIMORE CITY .....	15	15	11	20	18	22	23	21	22	21	188
BALTIMORE COUNTY .....	22	12	14	22	16	22	21	20	18	14	181
ANNE ARUNDEL .....	14	11	9	10	12	23	15	15	11	14	134
CARROLL .....	3	6	3	4	3	3	4	7	4	5	42
HOWARD .....	2	2	4	4	4	2	5	0	3	3	29
HARFORD .....	7	5	3	9	3	5	5	4	6	2	49
NATIONAL CAPITAL AREA .....	14	11	13	17	16	25	13	7	15	14	145
MONTGOMERY .....	9	8	7	11	8	16	8	4	6	7	84
PRINCE GEORGE'S .....	5	3	6	6	8	9	5	3	9	7	61
SOUTHERN AREA .....	10	10	6	11	13	13	14	10	16	13	116
CALVERT .....	4	5	3	3	3	7	3	1	4	4	37
CHARLES .....	4	3	1	5	8	4	7	5	4	3	44
ST MARY'S .....	2	2	2	3	2	2	4	4	8	6	35
EASTERN SHORE AREA .....	20	14	11	13	8	17	6	6	11	7	113
CECIL .....	9	4	6	6	3	2	2	0	2	2	36
KENT .....	0	0	1	0	1	0	0	0	0	0	2
QUEEN ANNE'S .....	1	0	1	1	2	1	0	1	0	1	8
CAROLINE .....	0	0	0	0	0	3	0	1	2	2	8
TALBOT .....	0	1	1	0	0	2	2	0	2	0	8
DORCHESTER .....	1	1	0	0	0	2	1	1	1	0	7
WICOMICO .....	5	5	1	2	1	5	0	2	3	0	24
SOMERSET .....	2	1	1	1	0	0	0	1	1	1	8
WORCESTER .....	2	2	0	3	1	2	1	0	0	1	12

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of oxycodone.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 6: TOTAL NUMBER OF METHADONE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	METHADONE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	172	170	138	152	183	197	246	196	201	279	1,934
NORTHWEST AREA .....	14	14	8	20	14	12	11	14	10	17	134
GARRETT .....	0	0	1	1	0	0	0	0	0	0	2
ALLEGANY .....	4	1	1	3	2	4	3	2	2	1	23
WASHINGTON .....	5	4	3	10	6	5	4	10	6	14	67
FREDERICK .....	5	9	3	6	6	3	4	2	2	2	42
BALTIMORE METRO AREA .....	128	122	110	112	145	158	198	155	166	226	1,520
BALTIMORE CITY .....	65	54	57	54	78	82	87	85	98	131	791
BALTIMORE COUNTY .....	32	28	29	31	34	36	63	37	36	46	372
ANNE ARUNDEL .....	17	15	6	14	9	21	23	12	12	21	150
CARROLL .....	2	12	7	5	9	9	6	6	8	9	73
HOWARD .....	5	1	5	2	5	2	8	1	6	3	38
HARFORD .....	7	12	6	6	10	8	11	14	6	16	96
NATIONAL CAPITAL AREA .....	13	13	7	6	9	13	14	7	6	13	101
MONTGOMERY .....	6	7	3	5	6	7	6	4	4	5	53
PRINCE GEORGE'S .....	7	6	4	1	3	6	8	3	2	8	48
SOUTHERN AREA .....	3	5	2	7	6	6	9	7	6	11	62
CALVERT .....	2	2	0	2	3	2	3	4	0	1	19
CHARLES .....	0	1	1	4	2	2	3	2	2	4	21
ST MARY'S .....	1	2	1	1	1	2	3	1	4	6	22
EASTERN SHORE AREA .....	14	16	11	7	9	8	14	13	13	12	117
CECIL .....	9	10	4	4	3	3	4	5	4	6	52
KENT .....	1	0	2	1	1	0	2	0	0	0	7
QUEEN ANNE'S .....	1	0	1	0	1	1	2	3	0	0	9
CAROLINE .....	1	1	0	1	0	2	1	0	1	0	7
TALBOT .....	0	1	2	0	1	1	2	1	2	1	11
DORCHESTER .....	0	1	0	0	0	0	2	1	2	0	6
WICOMICO .....	1	1	2	0	2	0	0	1	2	3	12
SOMERSET .....	1	0	0	0	1	0	1	0	1	0	4
WORCESTER .....	0	2	0	1	0	1	0	2	1	2	9

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of methadone.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 7: TOTAL NUMBER OF FENTANYL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	FENTANYL-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	26	29	58	186	340	1,119	1,594	1,888	1,927	2,342	9,509
NORTHWEST AREA .....	6	3	7	8	32	109	119	166	146	200	796
GARRETT .....	1	0	0	0	2	0	2	2	5	5	17
ALLEGANY .....	1	1	1	1	5	29	29	29	19	44	159
WASHINGTON .....	1	1	4	1	14	31	39	70	70	95	326
FREDERICK .....	3	1	2	6	11	49	49	65	52	56	294
BALTIMORE METRO AREA .....	10	16	35	142	248	792	1,118	1,415	1,395	1,605	6,776
BALTIMORE CITY .....	2	4	12	72	120	419	573	758	810	920	3,690
BALTIMORE COUNTY .....	4	5	11	36	65	182	244	308	285	328	1,468
ANNE ARUNDEL .....	2	3	6	23	29	98	152	184	164	209	870
CARROLL .....	0	1	2	4	11	20	40	55	47	37	217
HOWARD .....	0	2	3	5	7	27	36	34	28	44	186
HARFORD .....	2	1	1	2	16	46	73	76	61	67	345
NATIONAL CAPITAL AREA .....	0	3	6	15	32	101	175	115	167	251	865
MONTGOMERY .....	0	2	0	8	17	43	72	40	76	102	360
PRINCE GEORGE'S .....	0	1	6	7	15	58	103	75	91	149	505
SOUTHERN AREA .....	3	1	4	9	9	32	74	60	74	79	345
CALVERT .....	1	0	0	5	2	11	22	23	23	16	103
CHARLES .....	1	1	3	1	4	17	26	14	24	37	128
ST MARY'S .....	1	0	1	3	3	4	26	23	27	26	114
EASTERN SHORE AREA .....	7	6	6	12	19	85	108	132	145	207	727
CECIL .....	2	0	0	1	7	9	44	52	49	81	245
KENT .....	0	0	0	1	0	3	3	2	10	6	25
QUEEN ANNE'S .....	0	0	1	1	0	4	5	16	10	12	49
CAROLINE .....	4	0	0	0	1	3	7	6	9	14	44
TALBOT .....	0	1	0	2	2	7	3	10	11	11	47
DORCHESTER .....	0	0	2	0	1	3	7	4	9	15	41
WICOMICO .....	1	4	1	7	1	34	24	24	26	34	156
SOMERSET .....	0	0	2	0	1	6	3	8	9	12	41
WORCESTER .....	0	1	0	0	6	16	12	10	12	22	79

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion or exposure to pharmaceutical or nonpharmaceutical fentanyl.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 8: TOTAL NUMBER OF COCAINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	COCAINE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	148	153	154	198	221	464	691	891	869	921	4,710
NORTHWEST AREA .....	10	9	13	16	20	27	43	67	51	65	321
GARRETT .....	0	0	0	0	1	0	1	0	3	1	6
ALLEGANY .....	0	2	2	2	5	9	13	12	6	10	61
WASHINGTON .....	3	5	6	6	10	9	10	31	24	31	135
FREDERICK .....	7	2	5	8	4	9	19	24	18	23	119
BALTIMORE METRO AREA .....	97	108	102	138	167	348	522	693	647	666	3,488
BALTIMORE CITY .....	48	59	47	82	93	202	285	388	380	393	1,977
BALTIMORE COUNTY .....	19	17	27	28	38	80	123	132	138	135	737
ANNE ARUNDEL .....	18	13	12	19	19	31	66	91	72	89	430
CARROLL .....	3	7	7	2	6	8	14	23	24	8	102
HOWARD .....	5	7	5	3	6	7	16	19	9	16	93
HARFORD .....	4	5	4	4	5	20	18	40	24	25	149
NATIONAL CAPITAL AREA .....	24	22	25	29	16	44	62	49	74	86	431
MONTGOMERY .....	12	12	13	10	5	11	17	18	29	26	153
PRINCE GEORGE'S .....	12	10	12	19	11	33	45	31	45	60	278
SOUTHERN AREA .....	3	6	1	3	6	8	19	33	39	33	151
CALVERT .....	2	3	0	2	0	2	3	3	9	8	32
CHARLES .....	1	1	0	0	2	4	10	13	12	16	59
ST MARY'S .....	0	2	1	1	4	2	6	17	18	9	60
EASTERN SHORE AREA .....	14	8	13	12	12	37	45	49	58	71	319
CECIL .....	7	2	5	4	3	3	15	14	12	13	78
KENT .....	0	0	0	1	1	0	1	1	4	2	10
QUEEN ANNE'S .....	1	0	0	0	0	1	2	5	6	4	19
CAROLINE .....	1	1	0	1	0	5	2	1	2	2	15
TALBOT .....	0	0	3	0	1	2	2	3	6	5	22
DORCHESTER .....	1	1	1	0	0	1	7	2	5	6	24
WICOMICO .....	3	4	3	4	7	13	7	13	21	21	96
SOMERSET .....	0	0	0	0	0	4	2	6	2	7	21
WORCESTER .....	1	0	1	2	0	8	7	4	0	11	34

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent use of cocaine.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 9: TOTAL NUMBER OF BENZODIAZEPINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	BENZODIAZEPINE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	68	73	69	103	91	126	146	127	107	114	1,024
NORTHWEST AREA .....	9	5	6	13	8	21	19	10	9	15	115
GARRETT .....	0	0	1	0	1	0	2	0	1	2	7
ALLEGANY .....	1	0	1	3	1	6	5	1	1	3	22
WASHINGTON .....	4	3	2	5	3	6	2	4	2	4	35
FREDERICK .....	4	2	2	5	3	9	10	5	5	6	51
BALTIMORE METRO AREA .....	39	49	44	66	56	78	98	90	64	69	653
BALTIMORE CITY .....	9	15	14	22	15	24	28	28	27	26	208
BALTIMORE COUNTY .....	9	12	16	24	18	29	25	32	17	21	203
ANNE ARUNDEL .....	14	11	3	9	11	9	27	16	11	10	121
CARROLL .....	0	1	3	3	4	1	4	4	3	2	25
HOWARD .....	4	2	5	0	6	8	5	1	1	4	36
HARFORD .....	3	8	3	8	2	7	9	9	5	6	60
NATIONAL CAPITAL AREA .....	9	6	7	12	8	12	15	15	17	17	118
MONTGOMERY .....	6	4	4	10	7	7	8	9	10	8	73
PRINCE GEORGE'S .....	3	2	3	2	1	5	7	6	7	9	45
SOUTHERN AREA .....	2	4	4	6	7	7	8	4	7	6	55
CALVERT .....	1	1	1	3	1	1	2	2	0	0	12
CHARLES .....	0	2	1	2	4	4	4	1	3	3	24
ST MARY'S .....	1	1	2	1	2	2	2	1	4	3	19
EASTERN SHORE AREA .....	9	9	8	6	12	8	6	8	10	7	83
CECIL .....	6	7	3	3	5	2	1	2	4	2	35
KENT .....	0	0	0	0	0	1	2	0	0	0	3
QUEEN ANNE'S .....	1	0	0	0	1	1	0	3	0	1	7
CAROLINE .....	0	0	0	0	0	0	1	0	1	2	4
TALBOT .....	0	0	3	0	1	1	1	0	1	0	7
DORCHESTER .....	0	1	1	0	0	1	0	0	1	0	4
WICOMICO .....	1	0	0	1	2	1	0	1	1	2	9
SOMERSET .....	0	1	1	0	0	0	0	0	0	0	2
WORCESTER .....	1	0	0	2	3	1	1	2	2	0	12

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of a benzodiazepine or related drug with sedative effects.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 10: TOTAL NUMBER OF PHENCYCLIDINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	PHENCYCLIDINE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	10	16	8	15	14	32	28	37	58	75	293
NORTHWEST AREA .....	0	1	0	1	2	4	1	4	3	5	21
GARRETT .....	0	0	0	0	0	0	0	0	0	0	0
ALLEGANY .....	0	0	0	0	0	0	0	0	0	0	0
WASHINGTON .....	0	0	0	0	1	0	1	0	0	2	4
FREDERICK .....	0	1	0	1	1	4	0	4	3	3	17
BALTIMORE METRO AREA .....	4	7	4	3	2	11	8	9	23	19	90
BALTIMORE CITY .....	1	2	1	1	1	2	2	3	8	5	26
BALTIMORE COUNTY .....	0	1	1	0	0	2	1	0	2	2	9
ANNE ARUNDEL .....	3	2	1	1	1	6	5	5	11	10	45
CARROLL .....	0	1	0	0	0	0	0	0	0	0	1
HOWARD .....	0	1	1	1	0	1	0	1	2	1	8
HARFORD .....	0	0	0	0	0	0	0	0	0	1	1
NATIONAL CAPITAL AREA .....	4	6	3	10	8	13	16	20	25	41	146
MONTGOMERY .....	2	1	0	1	1	2	2	4	2	10	25
PRINCE GEORGE'S .....	2	5	3	9	7	11	14	16	23	31	121
SOUTHERN AREA .....	1	2	1	1	2	3	2	4	6	8	30
CALVERT .....	1	0	0	0	1	0	2	1	2	3	10
CHARLES .....	0	2	1	1	0	3	0	3	4	4	18
ST MARY'S .....	0	0	0	0	1	0	0	0	0	1	2
EASTERN SHORE AREA .....	1	0	0	0	0	1	1	0	1	2	6
CECIL .....	0	0	0	0	0	0	0	0	1	0	1
KENT .....	0	0	0	0	0	0	0	0	0	0	0
QUEEN ANNE'S .....	0	0	0	0	0	0	0	0	0	0	0
CAROLINE .....	0	0	0	0	0	0	0	0	0	0	0
TALBOT .....	0	0	0	0	0	0	0	0	0	1	1
DORCHESTER .....	1	0	0	0	0	0	0	0	0	0	1
WICOMICO .....	0	0	0	0	0	1	1	0	0	1	3
SOMERSET .....	0	0	0	0	0	0	0	0	0	0	0
WORCESTER .....	0	0	0	0	0	0	0	0	0	0	0

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of phencyclidine.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 11: TOTAL NUMBER OF METHAMPHETAMINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	METHAMPHETAMINE-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	0	2	6	3	10	18	28	32	41	76	216
NORTHWEST AREA .....	0	1	1	0	1	2	5	6	11	7	34
GARRETT .....	0	0	0	0	0	0	2	1	1	3	7
ALLEGANY .....	0	0	1	0	0	1	0	2	2	1	7
WASHINGTON .....	0	0	0	0	1	1	1	3	7	2	15
FREDERICK .....	0	1	0	0	0	0	2	0	1	1	5
BALTIMORE METRO AREA .....	0	1	3	1	4	12	12	13	13	28	87
BALTIMORE CITY .....	0	1	2	1	1	8	5	5	7	13	43
BALTIMORE COUNTY .....	0	0	1	0	0	1	1	4	4	7	18
ANNE ARUNDEL .....	0	0	0	0	0	0	2	2	2	1	7
CARROLL .....	0	0	0	0	1	0	1	1	0	2	5
HOWARD .....	0	0	0	0	2	2	1	1	0	1	7
HARFORD .....	0	0	0	0	0	1	2	0	0	4	7
NATIONAL CAPITAL AREA .....	0	0	2	0	4	3	4	4	6	9	32
MONTGOMERY .....	0	0	0	0	0	1	2	1	3	2	9
PRINCE GEORGE'S .....	0	0	2	0	4	2	2	3	3	7	23
SOUTHERN AREA .....	0	0	0	0	1	1	3	1	1	2	9
CALVERT .....	0	0	0	0	0	0	1	1	1	0	3
CHARLES .....	0	0	0	0	1	1	2	0	0	2	6
ST MARY'S .....	0	0	0	0	0	0	0	0	0	0	0
EASTERN SHORE AREA .....	0	0	0	2	0	0	4	8	10	30	54
CECIL .....	0	0	0	0	0	0	4	6	8	26	44
KENT .....	0	0	0	0	0	0	0	0	1	0	1
QUEEN ANNE'S .....	0	0	0	0	0	0	0	0	0	1	1
CAROLINE .....	0	0	0	1	0	0	0	0	1	1	3
TALBOT .....	0	0	0	0	0	0	0	0	0	0	0
DORCHESTER .....	0	0	0	0	0	0	0	0	0	0	0
WICOMICO .....	0	0	0	1	0	0	0	1	0	0	2
SOMERSET .....	0	0	0	0	0	0	0	0	0	0	0
WORCESTER .....	0	0	0	0	0	0	0	1	0	2	3

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of methamphetamine.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.

**TABLE 12: TOTAL NUMBER OF ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2011-2020.<sup>1,2</sup>**

REGION AND POLITICAL SUBDIVISION	ALCOHOL-RELATED DEATHS										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	TOTAL
MARYLAND .....	161	195	239	270	310	582	517	472	423	566	3,735
NORTHWEST AREA .....	16	12	21	27	30	47	31	34	37	37	292
GARRETT .....	1	0	2	1	1	1	2	1	2	1	12
ALLEGANY .....	2	4	2	3	6	14	4	7	3	7	52
WASHINGTON .....	4	3	6	11	10	17	14	15	20	17	117
FREDERICK .....	9	5	11	12	13	15	11	11	12	12	111
BALTIMORE METRO AREA .....	99	126	154	166	215	403	334	339	273	343	2,452
BALTIMORE CITY .....	44	71	86	86	114	222	198	187	165	169	1,342
BALTIMORE COUNTY .....	22	24	32	39	52	81	71	80	53	91	545
ANNE ARUNDEL .....	21	15	22	18	27	56	37	44	34	49	323
CARROLL .....	4	4	4	9	6	12	9	10	6	7	71
HOWARD .....	4	6	6	6	5	14	7	5	4	11	68
HARFORD .....	4	6	4	8	11	18	12	13	11	16	103
NATIONAL CAPITAL AREA .....	28	38	35	36	32	67	86	51	58	102	533
MONTGOMERY .....	16	15	13	18	15	22	35	19	19	43	215
PRINCE GEORGE'S .....	12	23	22	18	17	45	51	32	39	59	318
SOUTHERN AREA .....	7	7	7	12	11	22	24	17	18	28	153
CALVERT .....	2	2	1	4	3	7	4	9	5	10	47
CHARLES .....	3	2	4	5	4	12	9	3	10	14	66
ST MARY'S .....	2	3	2	3	4	3	11	5	3	4	40
EASTERN SHORE AREA .....	11	12	22	29	22	43	42	31	37	56	305
CECIL .....	3	6	9	5	8	8	12	10	5	16	82
KENT .....	0	0	1	1	0	1	1	0	1	2	7
QUEEN ANNE'S .....	3	0	1	7	0	2	4	3	1	1	22
CAROLINE .....	1	0	1	2	0	5	4	1	2	3	19
TALBOT .....	0	2	2	0	0	0	5	4	5	6	24
DORCHESTER .....	0	1	0	0	1	1	2	1	5	5	16
WICOMICO .....	2	2	6	7	3	12	9	8	12	8	69
SOMERSET .....	1	1	1	2	2	3	1	0	1	4	16
WORCESTER .....	1	0	1	5	8	11	4	4	5	11	50

<sup>1</sup> Includes deaths confirmed or suspected to be related to recent ingestion of alcohol.

<sup>2</sup> Includes only deaths for which the manner of death was classified as accidental or undetermined.