

June 2020

Unintentional Drug- and Alcohol-Related Intoxication Deaths in Maryland, 2019

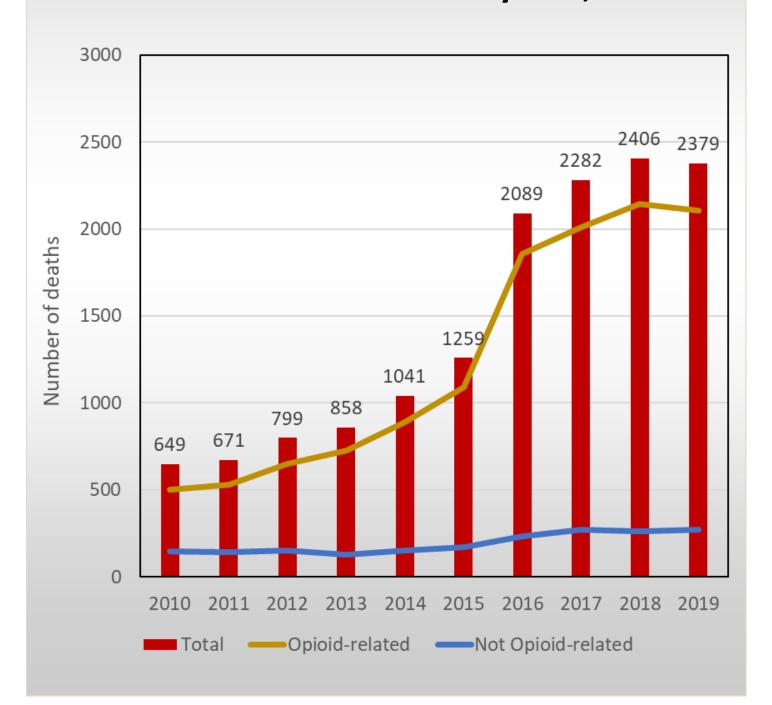


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METHODS

Introduction

The purpose of this report is to describe trends in the number of unintentional drugand alcohol-related intoxication deaths occurring in Maryland during the period 2010-2019. 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.¹

Sources of data

The data included in this report were obtained mainly from the OCME. Maryland law requires the OCME to investigate all deaths occurring in the State that result from violence, suicide, casualty, or take place in a suspicious, unexpected or unusual manner. 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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¹ 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 2010-2019 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:

Northwest Area	Baltimore Metro	National Capital	Southern Area	Eastern Shore
	Area	Area		Area
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 2010-2019 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 2018 were available at the time this report was prepared. Therefore, age-adjusted rates cover the period 2016 through 2018. 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.

SUMMARY OF TRENDS IN DRUG INTOXICATION DEATHS — 2010 TO 2019

Total drug and alcohol intoxication deaths

- The number of drug- and alcohol-related intoxication deaths occurring in Maryland decreased slightly in 2019, the first decline in intoxication deaths in 10 years. The total number of deaths in 2019 was 2,379, which represented a 1% decrease from the number of deaths (2,406) in 2018.
- Between the years 2011 through 2016, intoxication deaths increased among all age groups, and were highest among those aged 45-54 years old. In 2017, deaths in this age group were surpassed by those aged 25-34 years old. The number of deaths among those aged <25 years started to decline in 2017 and this decrease has continued in 2018 and 2019. Deaths among those 25-34 years started to decline in 2018 and continued to decrease in 2019. Deaths increased in the older age groups in 2018. Deaths among those 45-54 years decreased in 2019, while deaths among those 55 and older increased again in 2019 and this group had the highest number of deaths</p>
- The number of deaths among non-Hispanic Whites began to decrease in 2018 and decreased again in 2019 by 9%. Deaths have increased steadily among non-Hispanic Blacks since 2012, and increased 13% between 2018 and 2019. Among Hispanics deaths increased slightly to 75 in 2019.
- Deaths decreased by 2% among men between 2018 and 2019, the first decrease in 10 years. Deaths among women have plateaued since 2018. Intoxication deaths were 2.6 times higher among men than women in 2019.
- Although there were decreases in the number of deaths occurring in nine jurisdictions of the state between 2018 and 2019: Allegany, Washington, Frederick, Baltimore County, Anne Arundel, Carroll, Howard, Harford, and Queen Anne's, the remainder saw increases: Garrett, Baltimore City, Montgomery, Prince George's, Calvert, Charles, St. Mary's, Cecil, Kent, Caroline, Talbot, Dorchester, Wicomico, Somerset, and Worcester.

Opioid-related deaths

- Eighty-nine percent of all intoxication deaths that occurred in Maryland in 2019 were opioid-related. Opioid-related deaths include deaths related to heroin, prescription opioids, and nonpharmaceutical fentanyl.
- The number of **opioid**-related deaths decreased by 2% between 2018 and 2019, the first decline in 10 years. Non opioid-related drug deaths increased slightly in 2019.
- **Fentanyl**-related deaths continued to drive opioid-related deaths. Between 2018 and 2019 the number of **fentanyl**-related deaths increased by 2% (from 1888 to 1927). The number of **heroin**-related deaths declined for the third straight year, decreasing by 40% between 2016 and 2019 to 726 deaths. The number of **prescription opioid**-related deaths decreased by 12% between 2016 and 2019 (from 418 to 369).

Fentanyl

- **Fentanyl**-related deaths have increased rapidly since 2013, with a 229% increase between 2015 and 2016. Deaths related to **fentanyl** slowed substantially between 2018 and 2019, rising just 2%, but reached a 10 year high of 1,927 deaths.
- In 2019, **Fentanyl**-related deaths declined among most age groups, but continued to rise among those 35-44 years (9%) and among those 55 and older (11%).
- **Fentanyl**-related deaths increased among non-Hispanic Blacks (18%), and Hispanics (12%) between 2018 and 2019. Deaths decreased 6% among non-Hispanic Whites, for the first time since 2012.
- **Fentanyl**-related deaths increased by 1% among men and by 4% among women in 2019.
- In 2019, **fentanyl** deaths increased in 14 jurisdictions, declined in 8 counties, and remained the same in 2 counties.
- Thirty-nine percent of **fentanyl**-related deaths in 2019 occurred in combination with cocaine, 34% in combination with **heroin**, 16% 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 in 2018 and there were 2 deaths in 2019.

Heroin

- Heroin-related deaths continued to decrease in 2019, declining by 13% since 2018.
- There was a decrease in **Heroin**-related deaths in 2019 among all age groups except those 55 years and older.
- Deaths among both sexes continued to decline for the third consecutive year, falling 12% among men and 15% among women.
- **Heroin**-related deaths declined among non-Hispanic Whites (21%), but increased among Non-Hispanic Blacks (1%) and Hispanics (11%) in 2019.
- In 2019, **heroin** deaths declined in 16 jurisdictions, remained the same in 2 counties, and increased in 6 jurisdictions.
- Ninety-one percent of heroin-related deaths in 2019 occurred in combination with fentanyl, 38% in combination with cocaine, 16% in combination with prescription opioids, and 14% in combination with alcohol.

Prescription Opioids

- The number of **prescription opioid**-related deaths had been rising since 2013, but started to decline 2017. Deaths declined again in 2019 by 3% compared with 2018.
- In 2019 the number of **prescription opioid**-related deaths declined among those under 25 years and those 45 years and older. Deaths rose among those 25 to 44 years.
- Deaths decreased among non-Hispanic Whites and Hispanics, but increased by 9% among non-Hispanic Blacks.
- Deaths related to **prescription opioids** were stable among men, but decreased by 7% among women in 2019.

Cocaine-related deaths

- The number of **cocaine**-related deaths declined in 2019 by 2% following a rapid increase in deaths of 303% between 2015 through 2018.
- Cocaine-related deaths increased in 2019 among those 35-44 years (13%), but decreased among those 25-34 years (10%) and those 45-54 years (11%). Deaths were stable in the youngest and oldest age groups.
- Cocaine-related deaths increased by 13% among non-Hispanic Blacks in 2019, while decreasing by 13% among non-Hispanic Whites. There was a slight increase among Hispanics.
- Deaths among women decreased by 9% in 2019, while the number of deaths among men was similar to 2018.
- The overall increase in **cocaine**-related deaths is largely the result of deaths occurring in combination with opioids. Eighty-five percent of **cocaine**-related deaths in 2019 occurred in combination with **fentanyl**, and 32% in combination with **heroin**.

Benzodiazepine-related deaths

- The number of **benzodiazepine**-related deaths continued a decline that started in 2018. Deaths decreased by 16% between 2018 and 2019.
- **Benzodiazepine**-related deaths declined in 2019 among all age groups except those 35-44 years.
- Deaths decreased among non-Hispanic Whites by 21% in 2019, but remained stable among non-Hispanic Blacks and Hispanics.
- Decreases were seen among both men and women in 2019.
- Ninety-three percent of **benzodiazepine**-related deaths in 2019 were in combination with **opioids**. Seventy-two percent of all **benzodiazepine**-related deaths occurred in combination with **fentanyl**, 46% in combination with **prescription opioids**, and 34% in combination with **heroin**.

Phencyclidine-related deaths (PCP)

- The number of **phencyclidine**-related deaths has been rising since 2018. These deaths increased by 57% between 2018 and 2019.
- Phencyclidine-related deaths increased among all age groups between 2018 and 2019.
- Deaths increased among non-Hispanic Whites and non-Hispanic Blacks. There were no deaths among Hispanics in 2019.
- Deaths increased by 38% among men in 2019, and increased by 180% among women.
- Sixty-seven percent of phencyclidine-related deaths in 2019 were in combination with opioids.

Methamphetamine-related deaths

• The number of **methamphetamine**-related deaths has been rising since 2015. These deaths increased by 28% between 2018 and 2019.

- Methamphetamine-related deaths increased among those 35 year and older, but were steady or decreased among younger age groups.
- Deaths increased among non-Hispanic Whites and non-Hispanic Blacks. There were no deaths among Hispanics.
- Deaths increased among both sexes.
- Seventy-eight percent of methamphetamine-related deaths in 2019 were in combination with opioids. Seventy-three percent of all methamphetamine-related deaths occurred in combination with fentanyl, 24% in combination with heroin, and 15% in combination with prescription opioids. Twenty-seven percent of methamphetamine-related deaths occurred in combination with cocaine.

Alcohol-related deaths

- The number of **alcohol**-related deaths has declined steadily since 2017. Deaths decreased by 10% in 2019.
- Alcohol-related deaths in 2019 remained stable among those less than 25 years, declined among those 25-34 years, increased slightly among those 35-44 years, decreased among those 45 years and older.
- Deaths decreased by 10% among non-Hispanic Whites and by 14% among non-Hispanic Blacks. There was a small increase among Hispanics.
- Deaths decreased in 2019 among both men and women.
- Seventy-nine percent of acute **alcohol**-related deaths in 2019 occurred in combination with opioids. Seventy-two percent occurred in combination with **fentanyl**, 29% occurred in combination with **cocaine**, and 23% occurred in combination with **heroin**.

Age-adjusted death rates

 Age-adjusted death rates for the period 2016-2018 ranged from lows of 8.9 and 11.1 per 100,000 population in Montgomery and Prince George's Counties, respectively, to a high of 84.8 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 32.0 deaths per 100,000 population over the three year period.



Figure 1. Total Number of Drug- and Alcohol-Related Intoxication Deaths Occurring in Maryland, 2010-2019.

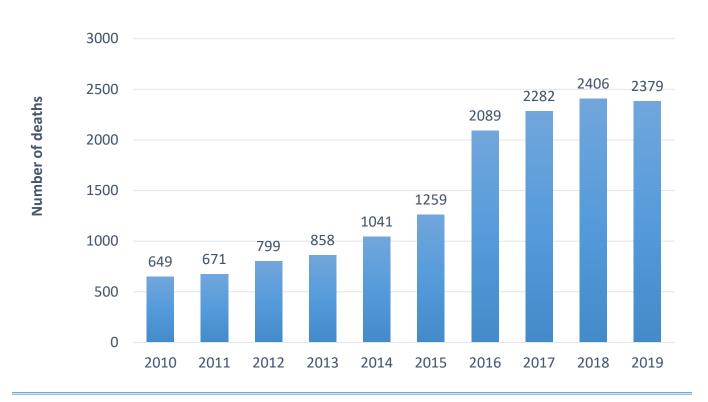


Figure 2. Total Number of Intoxication Deaths Occurring in Maryland by Place of Occurrence, 2019.

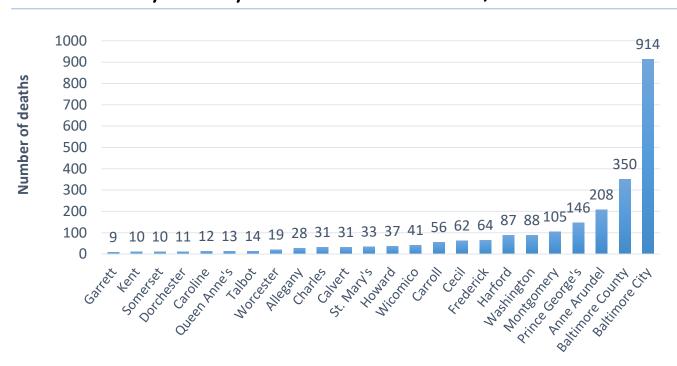
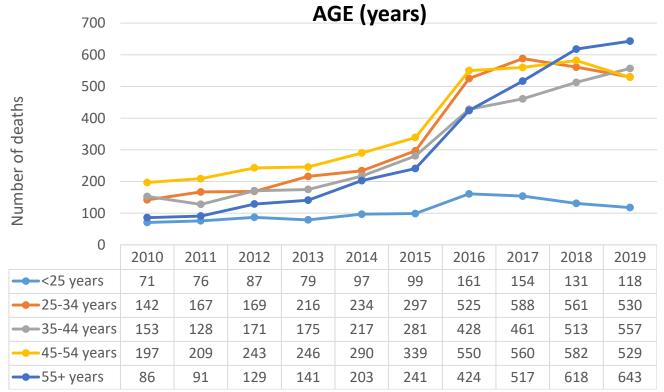


Figure 3. Total Number of Drug- and Alcohol-Related Intoxication Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



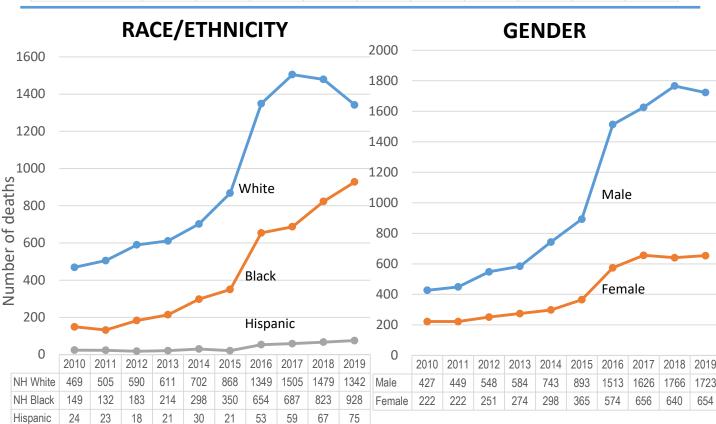
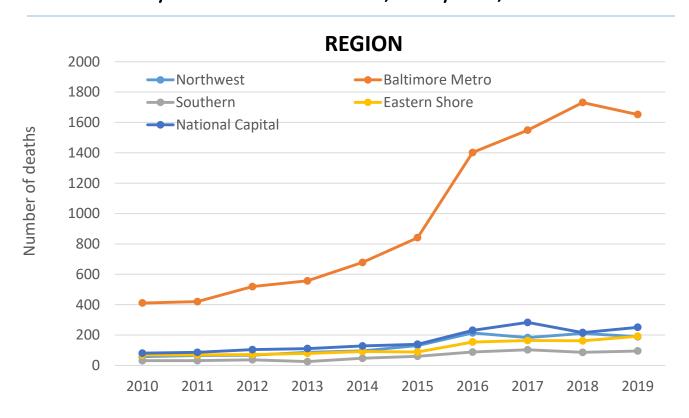


Figure 4. Total Number of Drug- and Alcohol-Related Intoxication Deaths by Place of Occurrence, Maryland, 2010-2019.



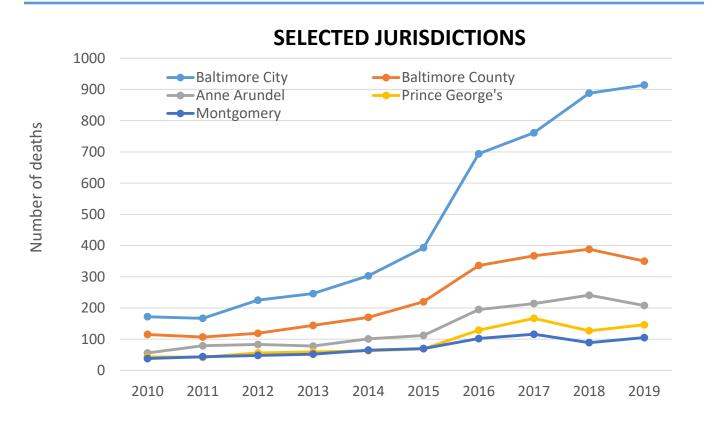
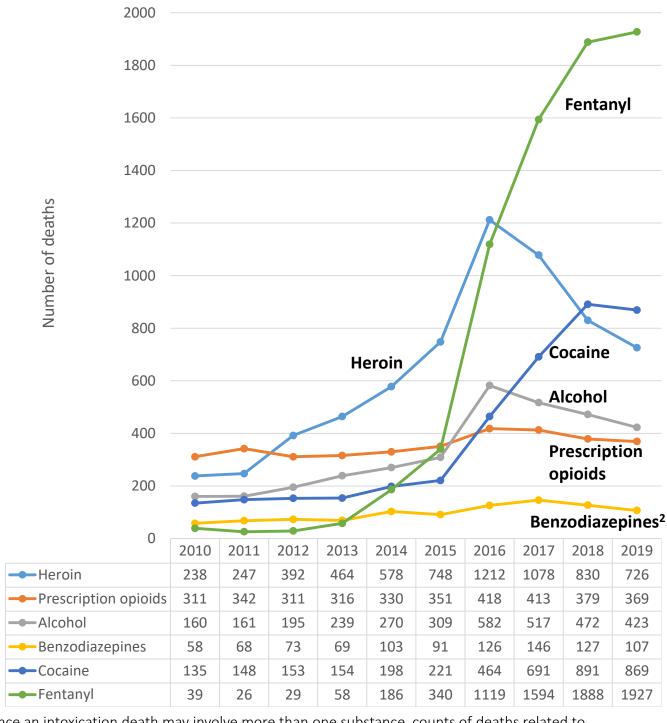




Figure 5. Total Number of Drug- and Alcohol-Related Intoxication Deaths by Selected Substances¹, Maryland, 2010-2019.



¹Since 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.

²Includes deaths caused by benzodiazepines and related drugs with similar sedative effects.

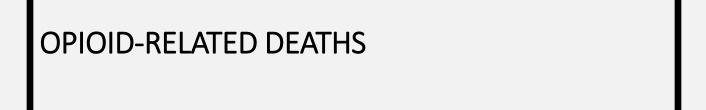


Figure 6. Total Number of Opioid* and Non-Opioid-Related Deaths Occurring in Maryland, 2010-2019.

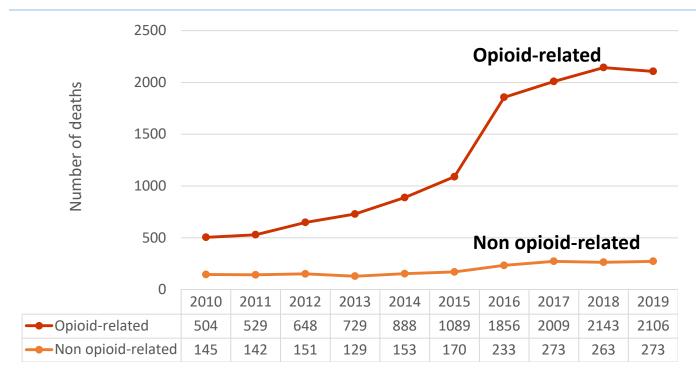
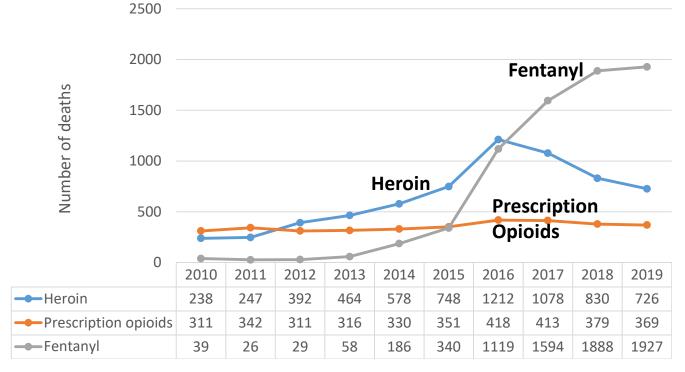


Figure 7. Number of Opioid-Related Deaths Occurring in Maryland by Substance, 2010-2019.



^{*}Total opioids include heroin, prescription opioids, and illicit forms of fentanyl.

Figure 8. Number of Fentanyl-Related Deaths Occurring in Maryland, 2010-2019.

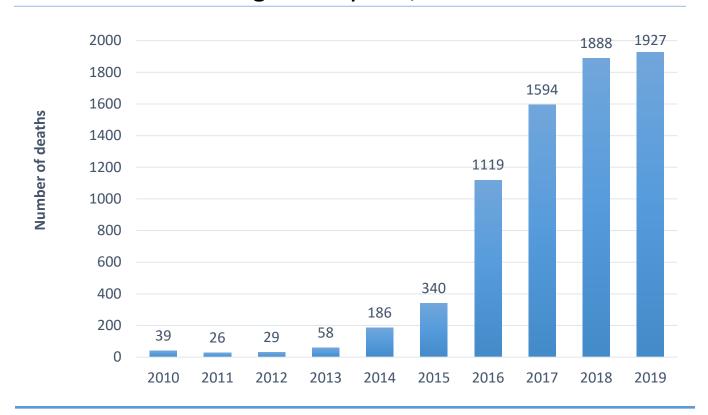


Figure 9. Number of Fentanyl-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

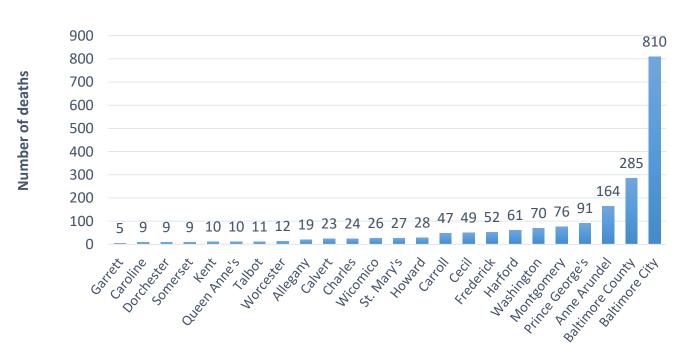
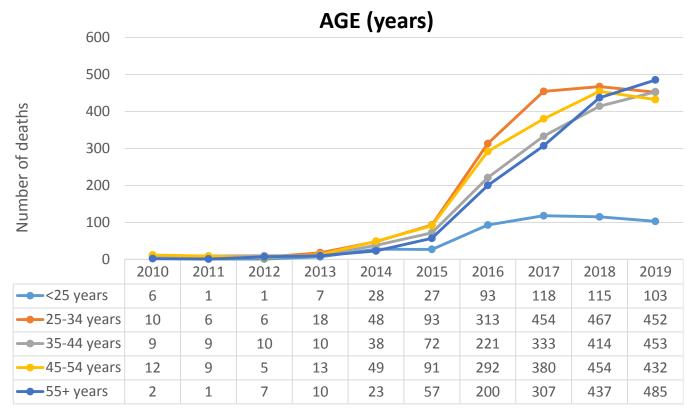


Figure 10. Number of Fentanyl-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



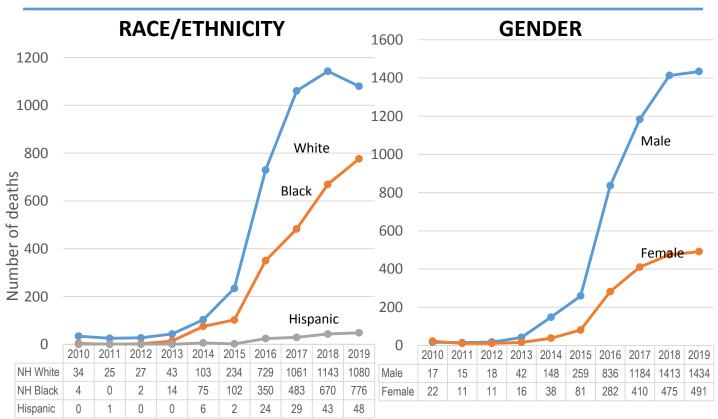
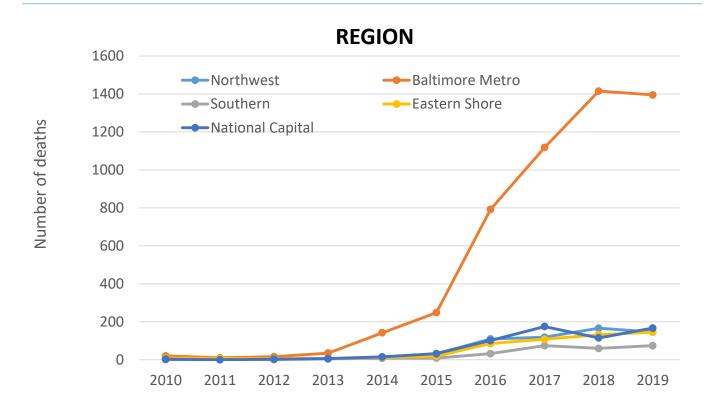
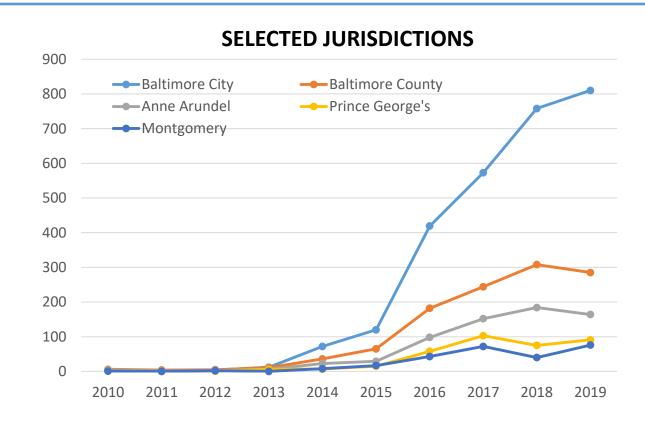


Figure 11. Number of Fentanyl-Related Deaths by Place of Occurrence, Maryland, 2010-2019.





Number of deaths

Figure 12. Number of Heroin-Related Deaths Occurring in Maryland, 2010-2019.

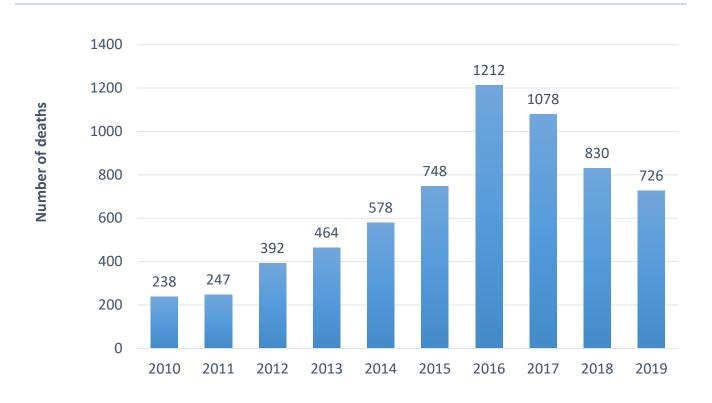


Figure 13. Number of Heroin-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

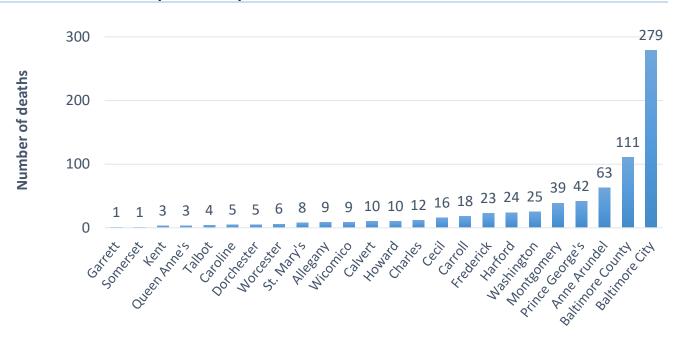
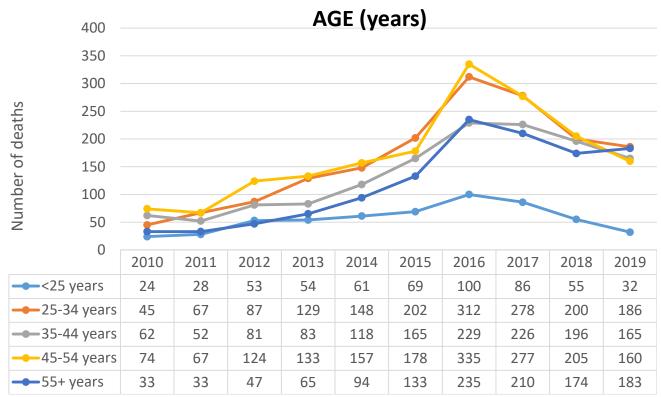


Figure 14. Number of Heroin-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



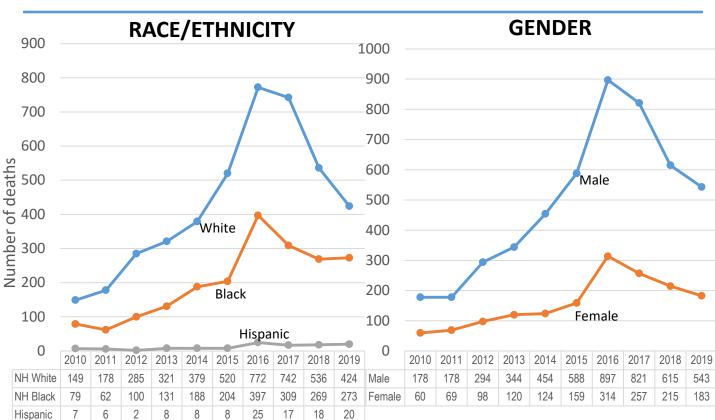
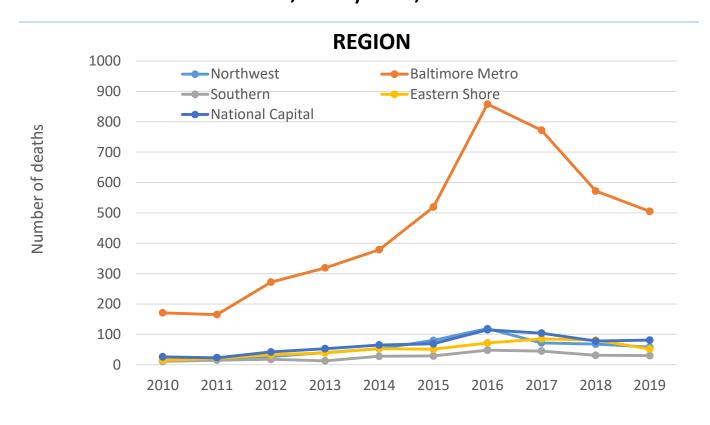
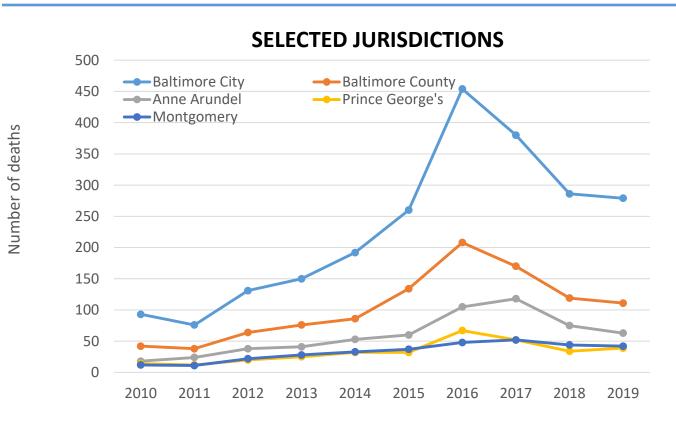


Figure 15. Number of Heroin-Related Deaths by Place of Occurrence, Maryland, 2010-2019.





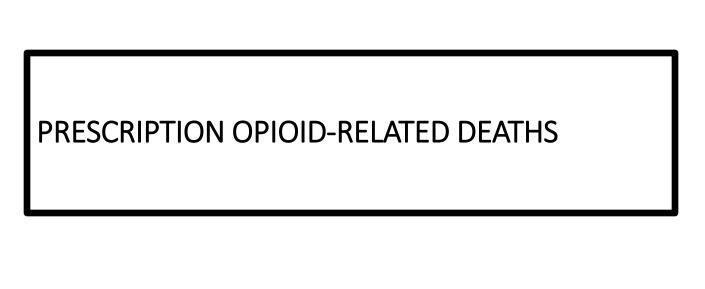


Figure 16. Number of Deaths Occurring in Maryland by Selected Prescription Opioids, 2010-2019.

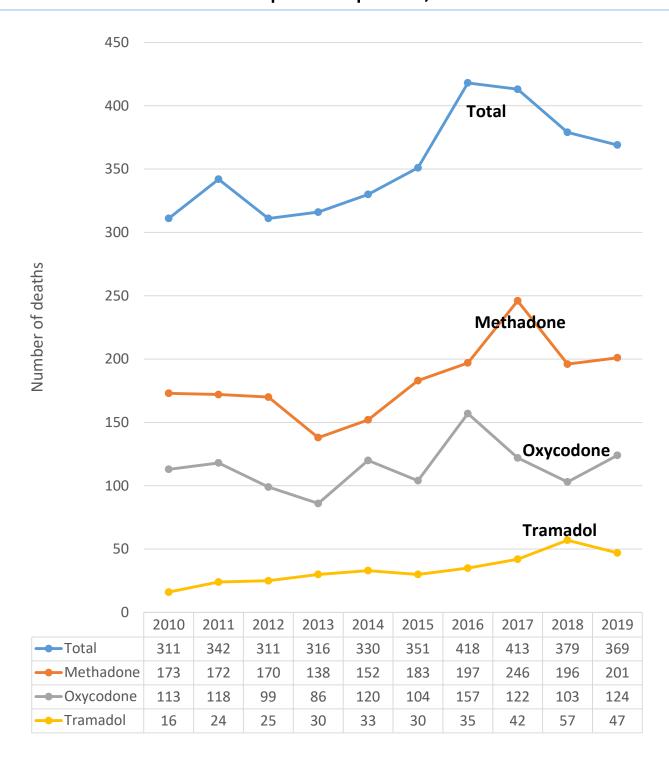


Figure 17. Number of Prescription Opioid-Related Deaths Occurring in Maryland, 2010-2019.

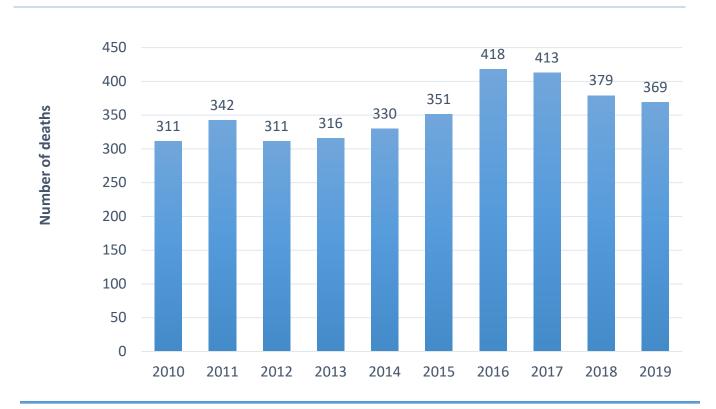


Figure 18. Number of Prescription Opioid-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

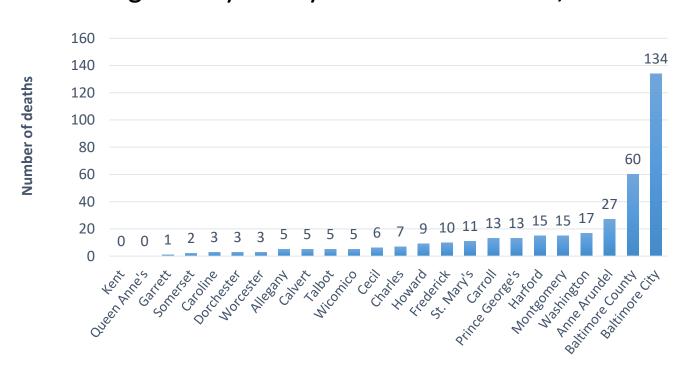
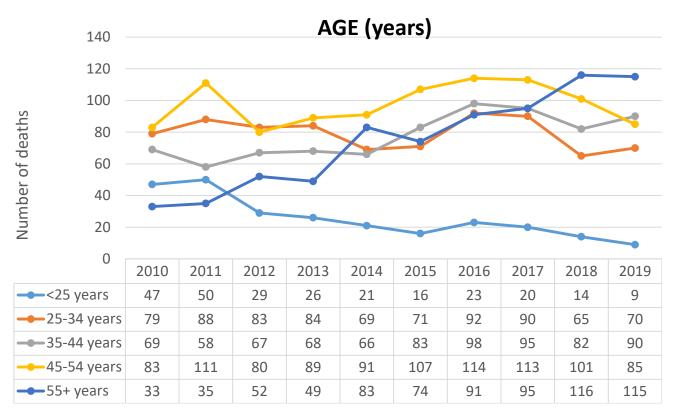


Figure 19. Number of Prescription Opioid-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



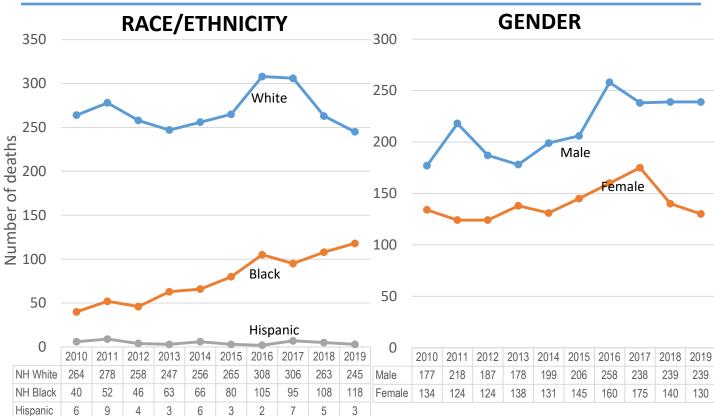
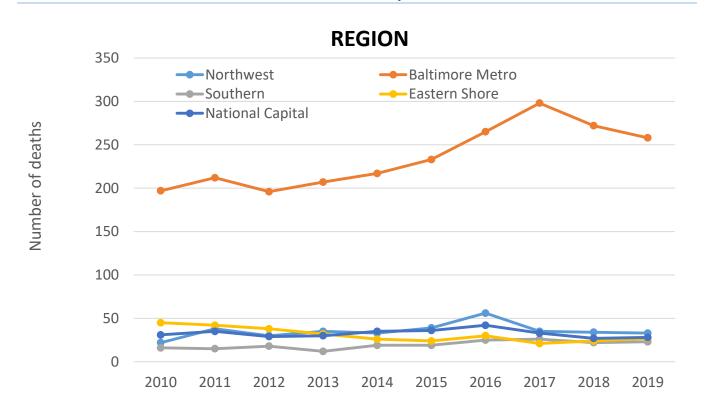


Figure 20. Number of Prescription Opioid-Related Deaths by Place of Occurrence, Maryland, 2010-2019.



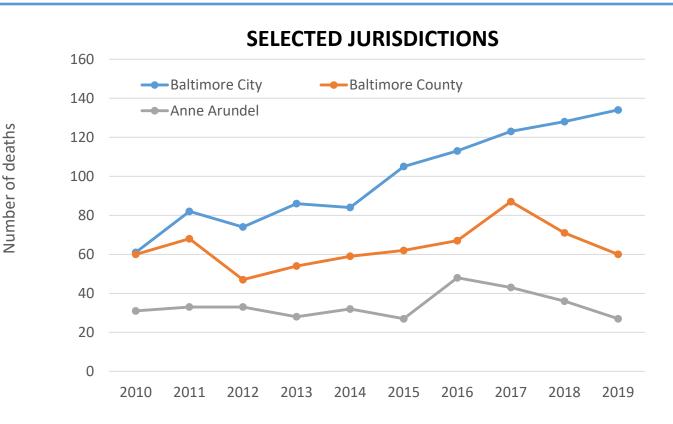


Figure 21. Number of Carfentanil-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

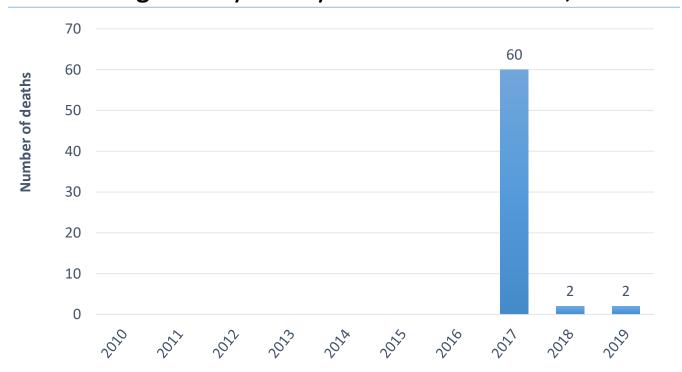


Figure 22. Number of Carfentanil-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity, and Gender, 2017-2019.

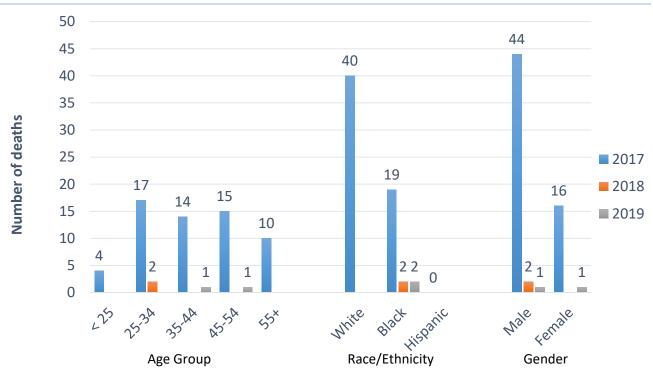




Figure 23. Number of Cocaine-Related Deaths Occurring in Maryland, 2010-2019.

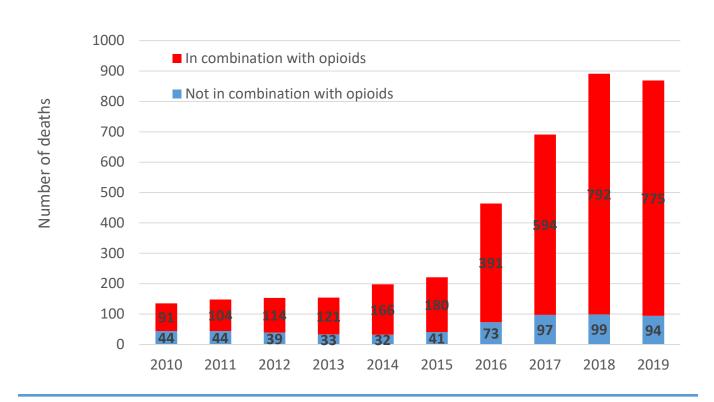


Figure 24. Number of Cocaine-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

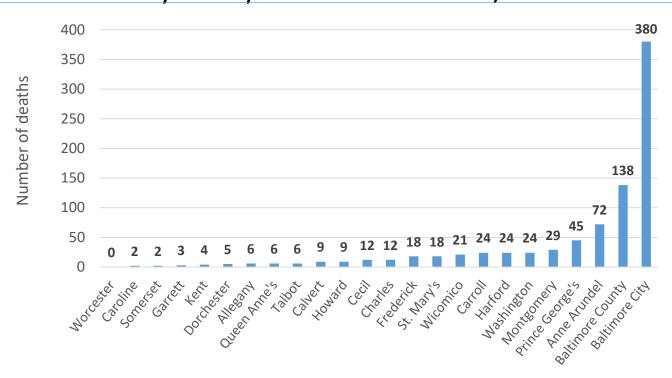
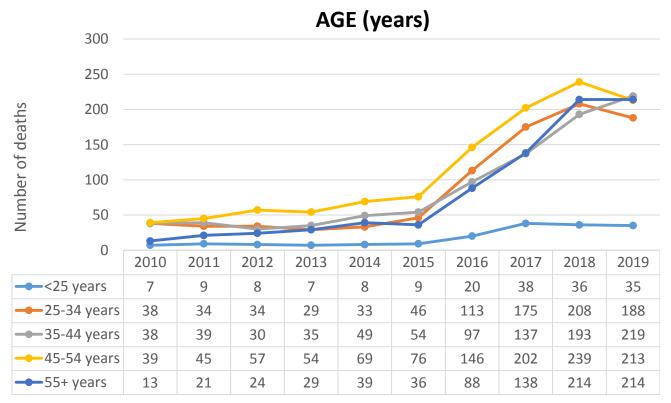


Figure 25. Number of Cocaine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



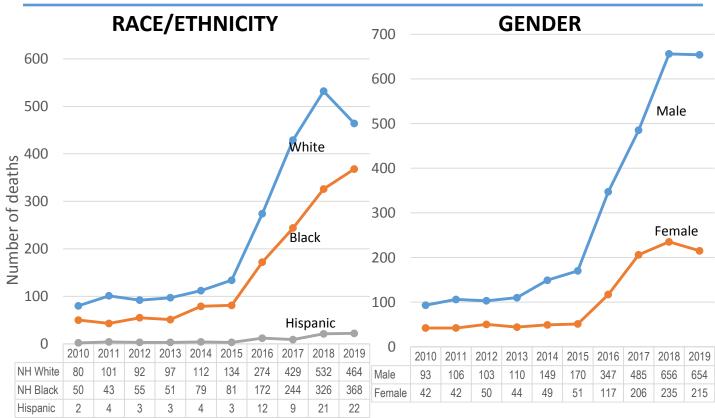
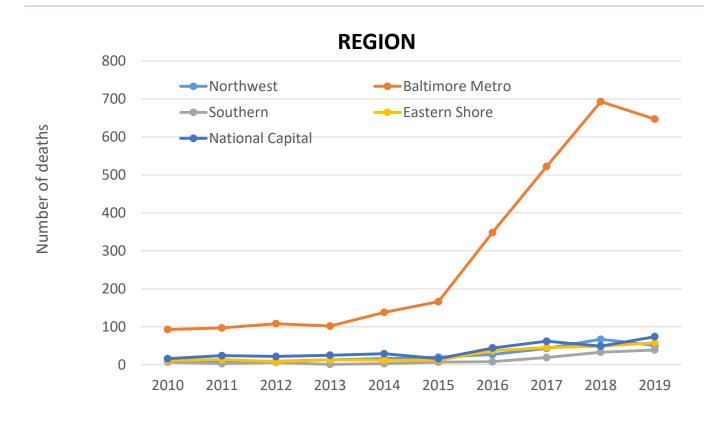
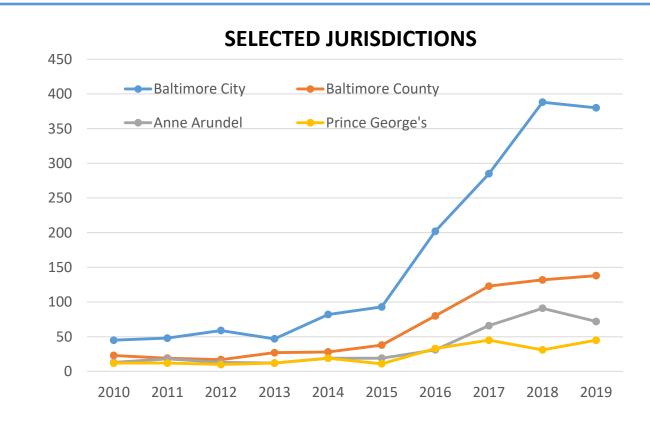


Figure 26. Number of Cocaine-Related Deaths by Place of Occurrence, Maryland, 2010-2019.





Number of deaths



Figure 27. Number of Benzodiazepine-Related Deaths Occurring in Maryland, 2010-2019.

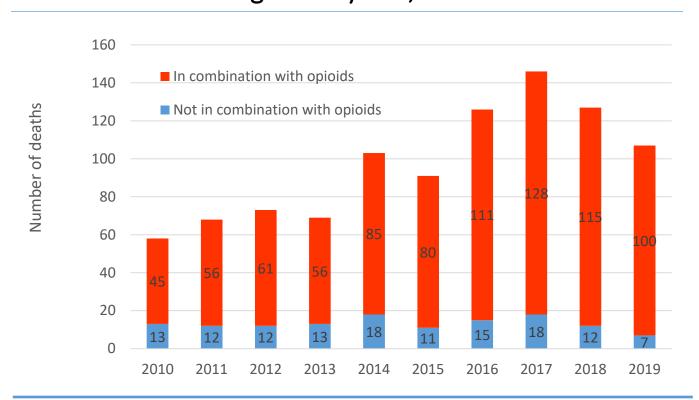


Figure 28. Number of Benzodiazepine-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

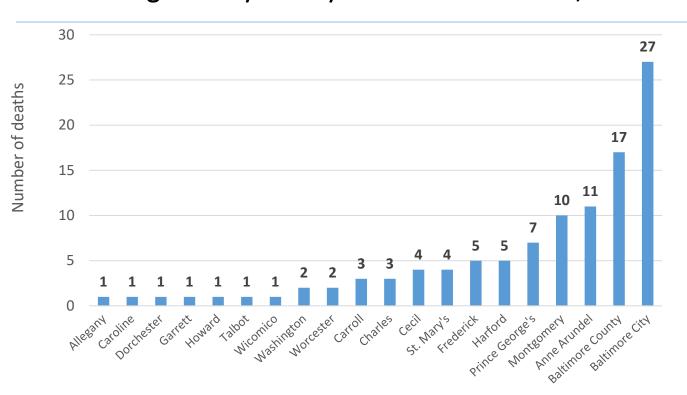
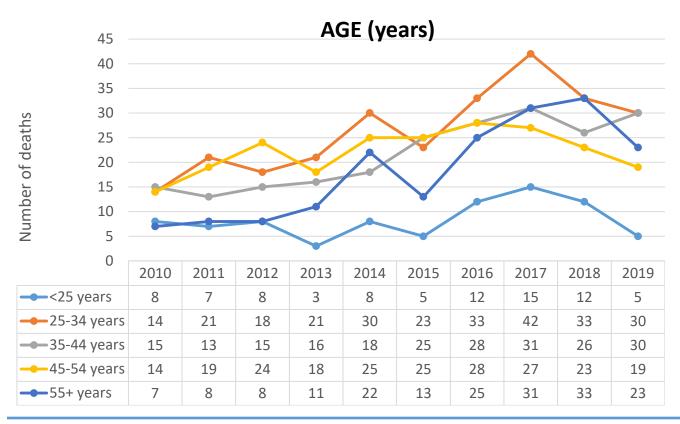


Figure 29. Number of Benzodiazepine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



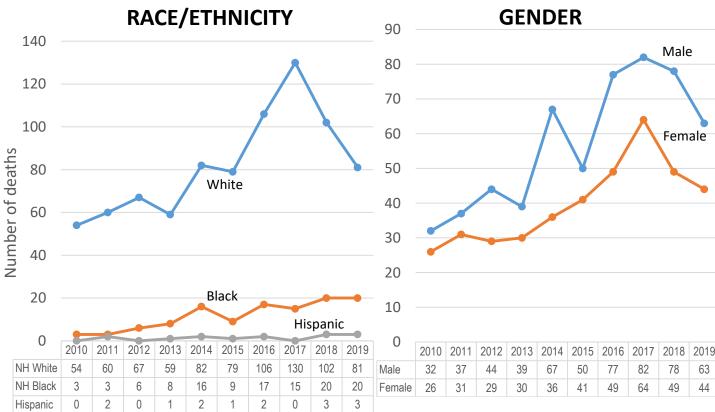
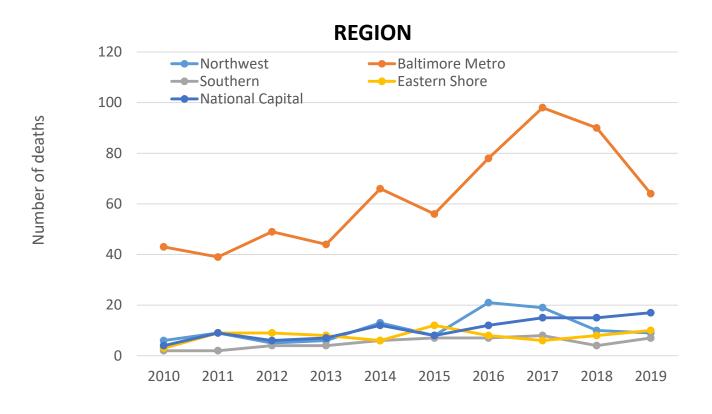


Figure 30. Number of Benzodiazepine-Related Deaths by Place of Occurrence, Maryland, 2010-2019.



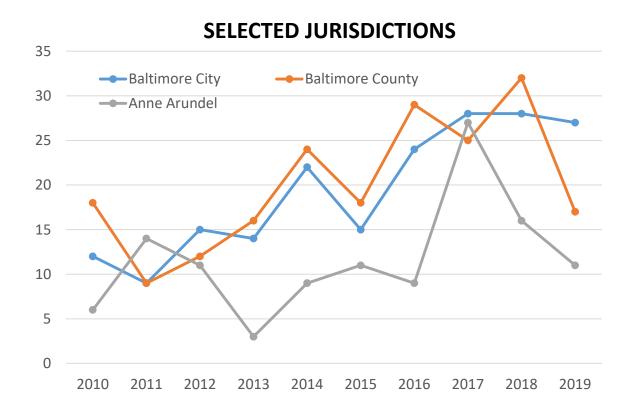




Figure 31. Number of Phencyclidine-Related Deaths Occurring in Maryland, 2010-2019.

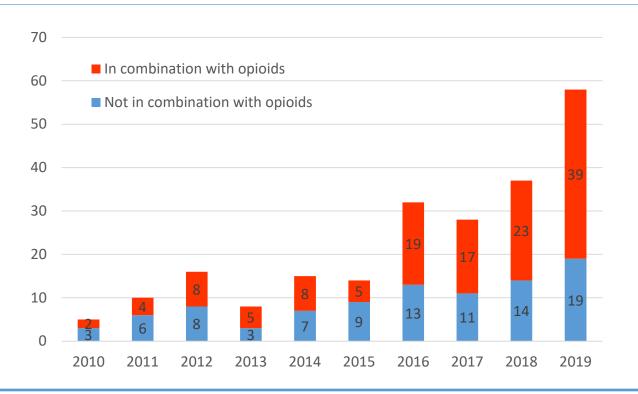


Figure 32. Number of Phencyclidine-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

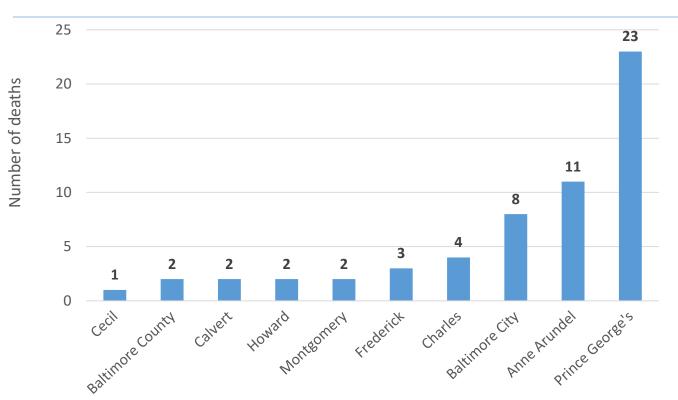
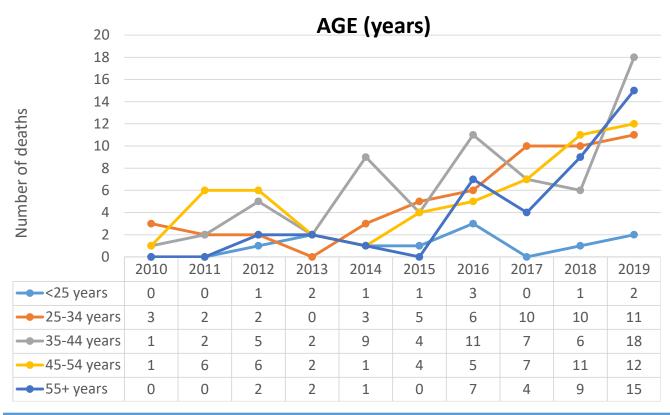


Figure 33. Number of Phencyclidine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



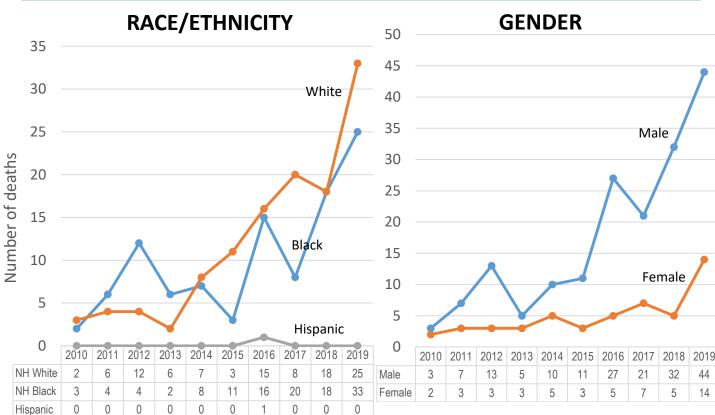
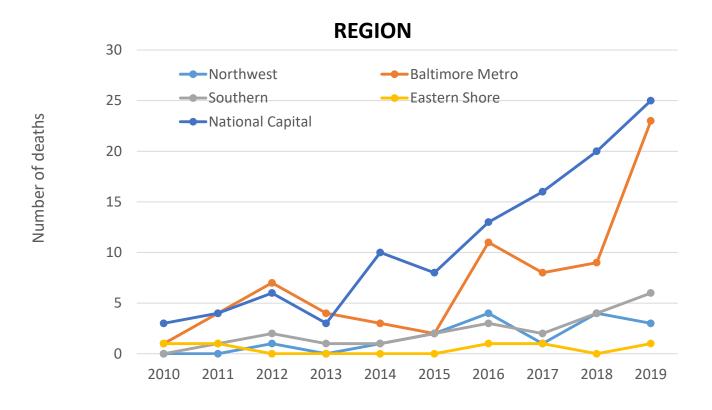
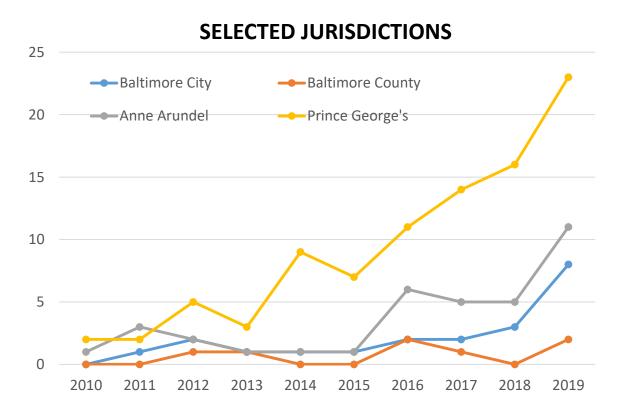


Figure 34. Number of Phencyclidine-Related Deaths by Place of Occurrence, Maryland, 2010-2019.





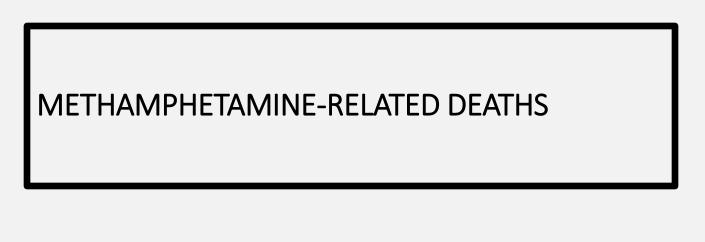


Figure 35. Number of Methamphetamine-Related Deaths Occurring in Maryland, 2010-2019.

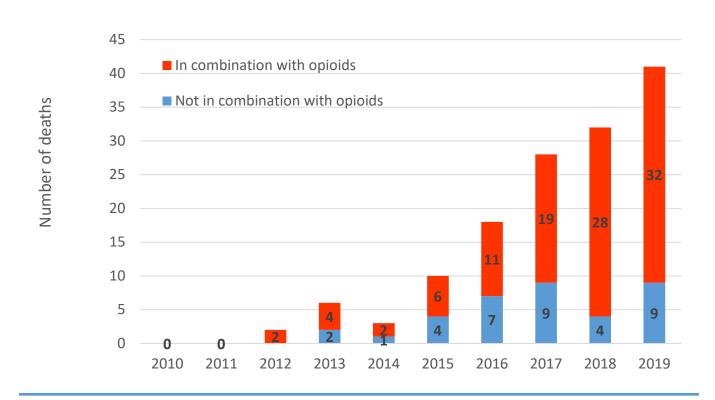


Figure 36. Number of Methamphetamine-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

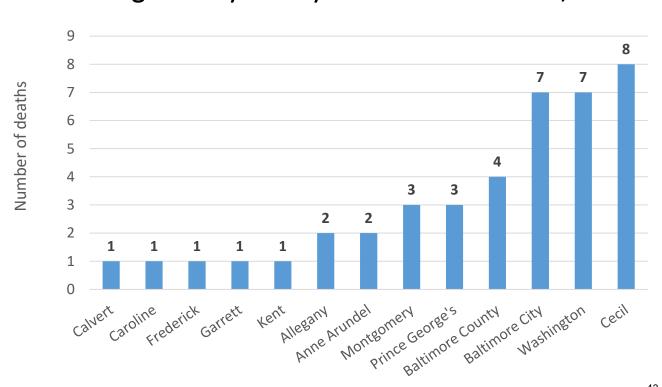
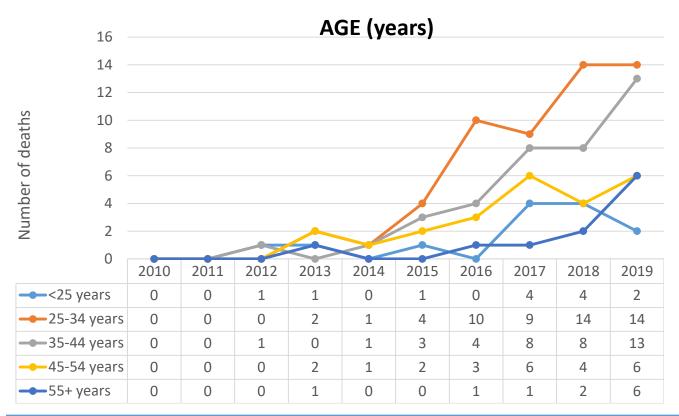


Figure 37. Number of Methamphetamine-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



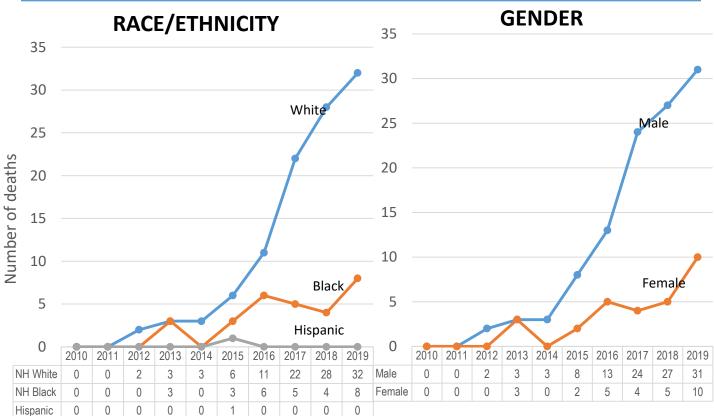
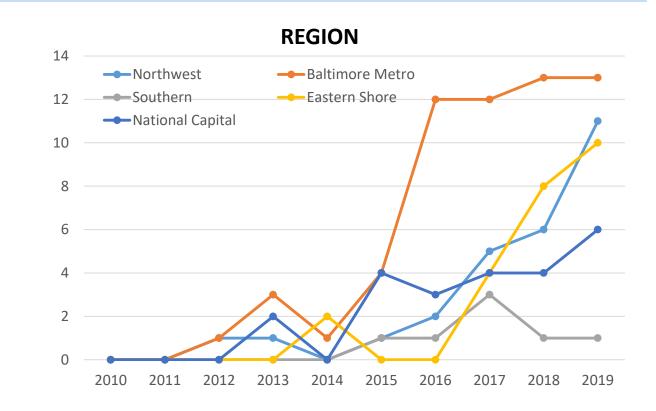
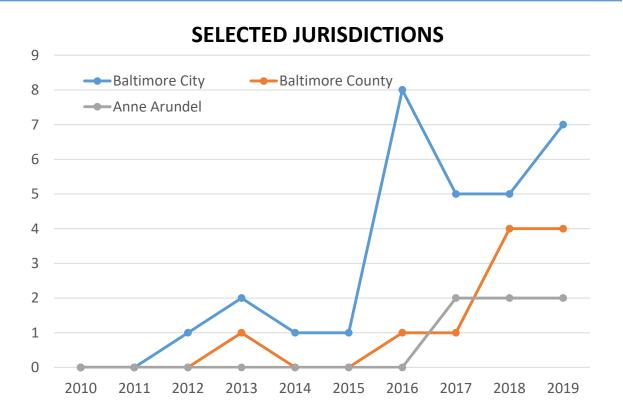


Figure 38. Number of Methamphetamine-Related Deaths by Place of Occurrence, Maryland, 2010-2019.





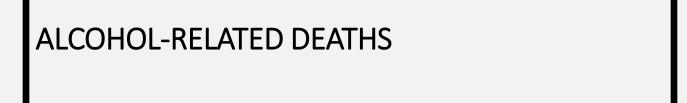


Figure 39. Number of Alcohol-Related Deaths Occurring in Maryland, 2010-2019.

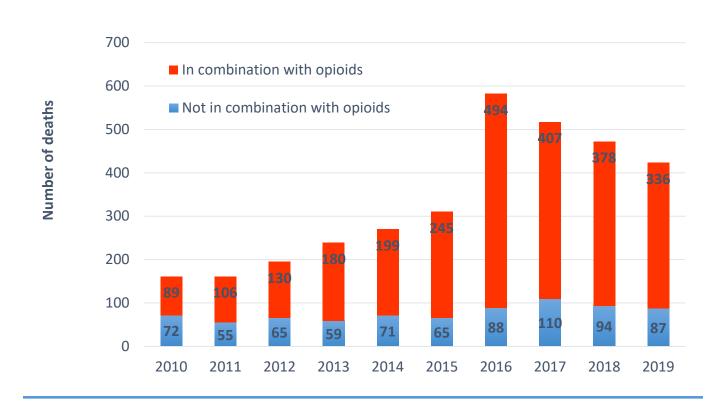


Figure 40. Number of Alcohol-Related Deaths Occurring in Maryland by Place of Occurrence, 2019.

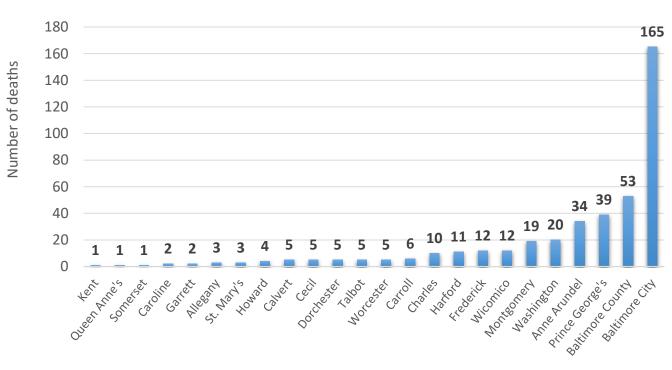
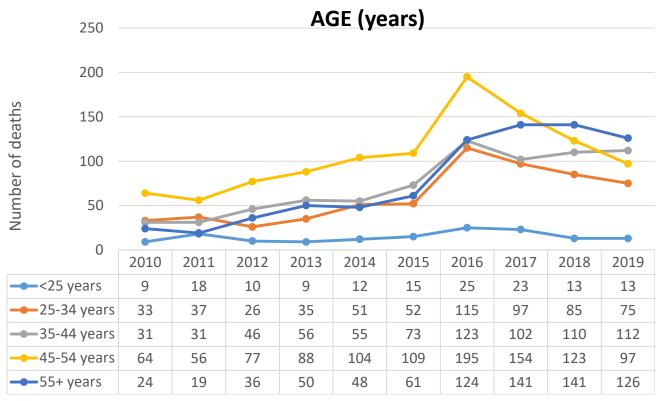


Figure 41. Number of Alcohol-Related Deaths Occurring in Maryland by Age Group, Race/Ethnicity and Gender, 2010-2019.



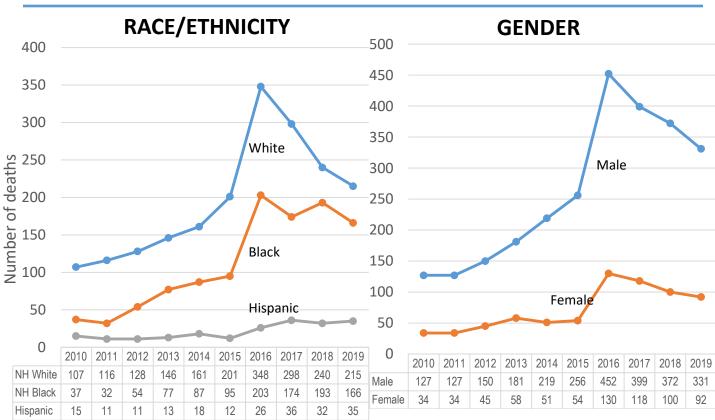
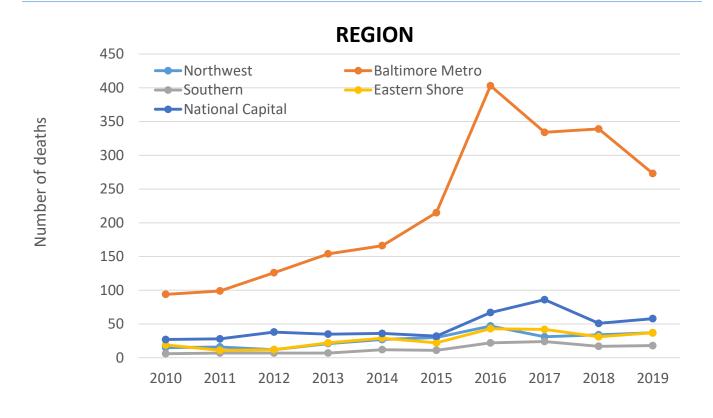


Figure 42. Number of Alcohol-Related Deaths by Place of Occurrence, Maryland, 2010-2019.



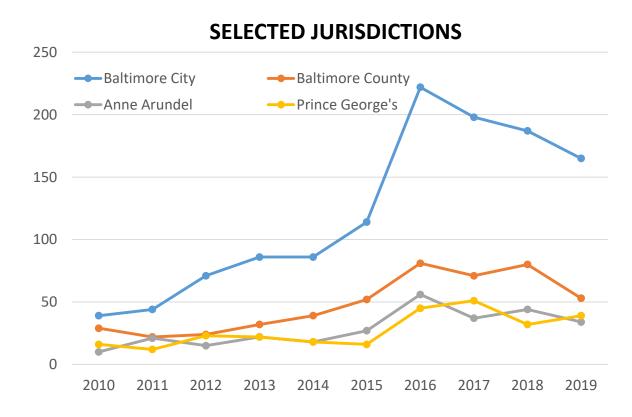




Figure 43. Number of Drug- and Alcohol-Related Intoxication Deaths Involving Opioids, 2010-2019.

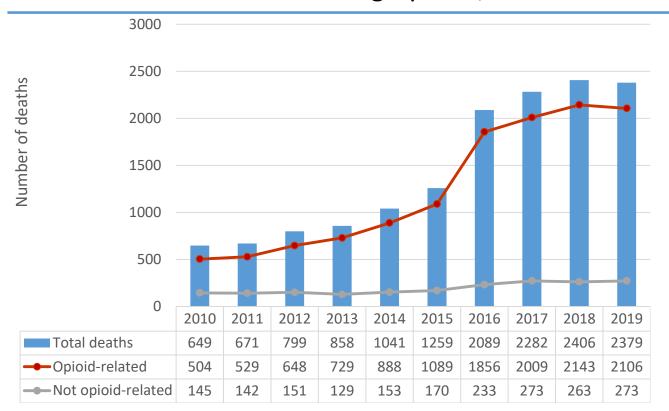


Figure 44. Number of Intoxication Deaths by Presence of Heroin and/or Fentanyl, 2010-2019.

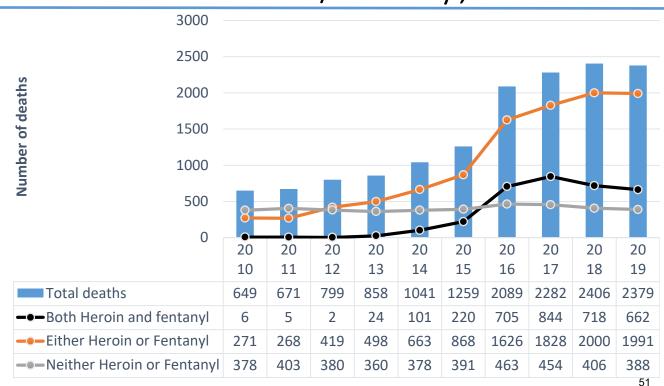


Figure 45. Number of Prescription Opioid-Related Intoxication Deaths Involving Heroin or Fentanyl, 2010-2019.

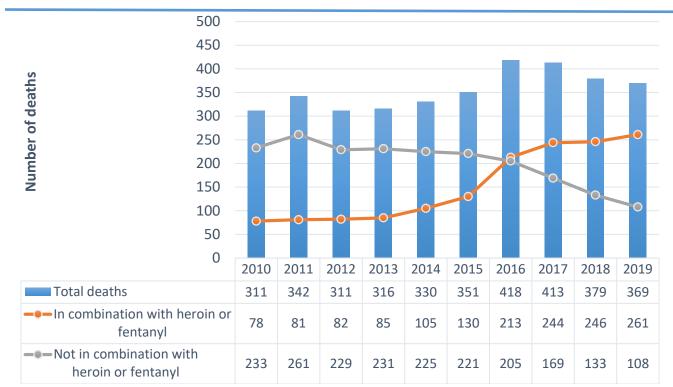


Figure 46. Number of Cocaine-Related Intoxication Deaths Involving Heroin or Fentanyl, 2010-2019.

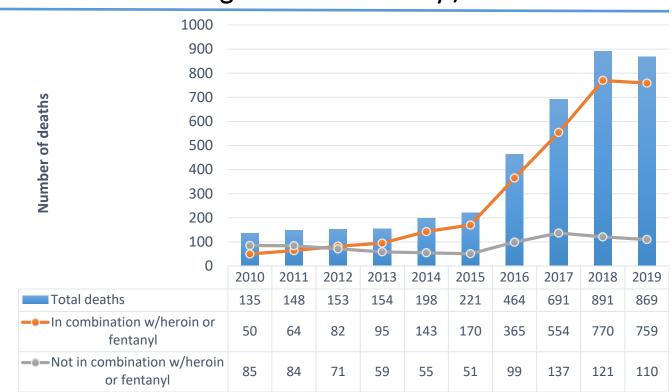


Figure 47. Number of Benzodiazepine-Related Intoxication Deaths Involving Heroin or Fentanyl, 2010-2019.

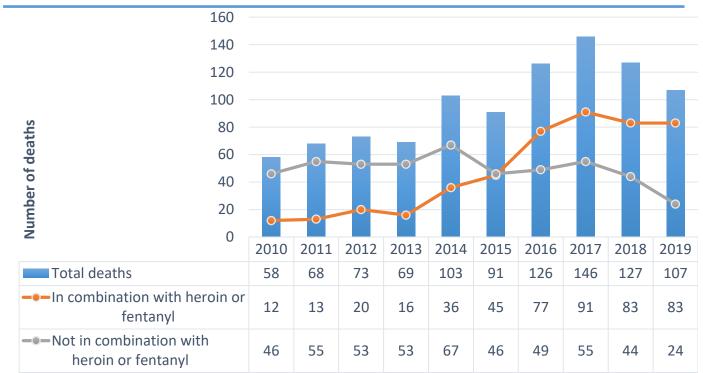


Figure 48. Number of Alcohol-Related Intoxication Deaths Involving Heroin or Fentanyl, 2010-2019.

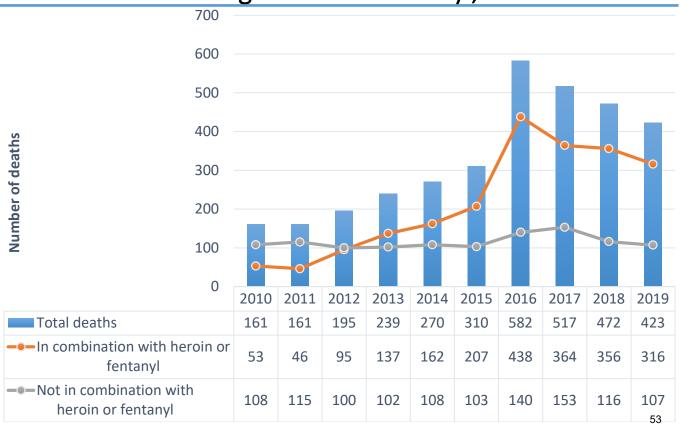
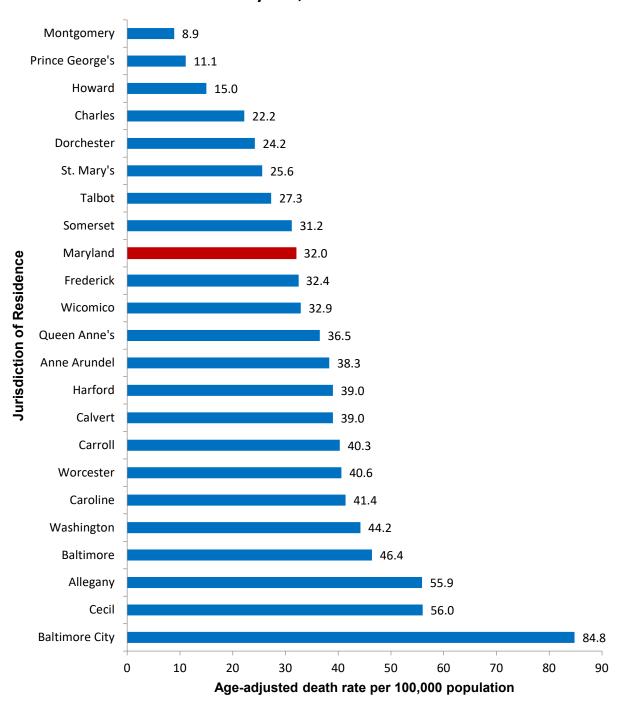


Figure 49. Combinations of Substances Related to Unintentional Drugand Alcohol-Related Intoxication Deaths, Maryland, 2019.

		Number	Percent
Fentanyl	T 4 4	4007	
	Total	1927	
	In combination		
	With cocaine	742	38.5
	With heroin	662	34.4
	With alcohol	305	15.8
	With prescription opioids	245	12.7
	With benzodiazepines	77	4.0
Cocaine			
	Total	869	
	In combination		
	With fentanyl	742	85.4
	With heroin	277	31.9
	With alcohol	123	14.2
	With prescription opioids	101	11.6
	With benzodiazepines	35	4.0
Heroin	•		
	Total	726	
	In combination		
	With fentanyl	662	91.2
	With cocaine	277	38.2
	With prescription opioids	119	16.4
	With alcohol	98	13.5
	With benzodiazepines	36	5.0
Prescription opioids	With Bonzodiazopinos	00	0.0
i roccinpuon opioido	Total	369	
	In combination	000	
	With fentanyl	245	66.4
	With heroin	119	32.2
	With cocaine	101	27.4
	With benzodiazepines	49	13.3
	With alcohol	51	13.8
Alcohol	WILLI ALCOHOL	ان	13.0
AICUIUI	Total	400	
		423	
	In combination	205	70.4
	With session	305	72.1
	With cocaine	123	29.1
	With heroin	98	23.2
	With prescription opioids	51	12.1
.	With benzodiazepines	9	2.1
Benzodiazepines	T. ()		
	Total	107	
	In combination		
	With fentanyl	77	72.0
	With prescription opioids	49	45.8
	With heroin	36	33.6
	With cocaine	35	32.7
	With alcohol	9	8.4

Figure 50. Age-Adjusted Mortality Rates^{1,2} for Total Unintentional Intoxication Deaths by Place of Residence,³ Maryland, 2016-2018.



¹Age-adjusted to the 2000 U.S. standard population by the direct method.

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

³Rates are based on place of residence, not place of occurrence.



TABLE 1. TOTAL NUMBER OF DRUG AND ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2010-2019. 1,2

REGION AND POLITICAL					TOTAL IN	TOXICATION	DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	649	671	799	858	1,041	1,259	2,089	2,282	2,406	2,379	14,433
NORTHWEST AREA	58	65	67	86	96	131	214	183	211	189	1,300
	3	2	0	6	2	5	1	8	3	9	39
	15	12	14	15	12	22	59	38	39	28	254
	20	21	27	28	40	64	66	59	91	88	504
	20	30	26	37	42	40	88	78	78	64	503
	411	420	519	557	678	841	1,402	1,549	1,731	1,652	9,760
	172	167	225	246	305	393	694	761	888	914	4,765
BALTIMORE COUNTY	115	107	119	144	170	220	336	367	388	350	2,316
	56	79	83	78	101	112	195	214	241	208	1,367
	15	8	29	24	38	40	47	55	72	56	384
	10	21	24	29	21	26	46	51	41	37	306
	43	38	39	36	43	50	84	101	101	87	622
NATIONAL CAPITAL AREA	81	86	104	111	128	140	231	283	216	251	1,631
MONTGOMERY	38	44	48	52	65	70	102	116	89	105	729
PRINCE GEORGE'S	43	42	56	59	63	70	129	167	127	146	902
SOUTHERN AREACALVERTCHARLESST MARY'S	31	31	37	25	47	59	88	103	86	95	602
	6	12	12	6	17	20	28	32	28	31	192
	13	11	13	9	21	22	45	37	27	31	229
	12	8	12	10	9	17	15	34	31	33	181
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	68 24 5 4 2 3 6 13 1	69 28 2 5 11 1 2 11 3 6	72 25 0 2 4 5 5 21 3 7	79 26 4 8 2 7 5 17 4	92 29 6 10 7 4 0 20 3 13	88 32 3 4 3 5 1 18 6	154 30 6 8 10 10 6 48 8 28	164 59 5 8 11 11 12 35 4	162 59 2 17 7 10 7 36 8	192 62 10 13 12 14 11 41 10	1,140 374 43 79 69 70 55 260 50 140

¹ 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. ² 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, 2010-2019. 1,2

REGION AND POLITICAL					OPIOID-	RELATED D	EATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	504	529	648	729	888	1,089	1,856	2,009	2,143	2,106	12,501
NORTHWEST AREA	37 1 11 13 12	53 1 8 16 28 341	53 0 10 20 23 437	74 4 11 26 33	81 2 11 34 34 591	118 4 20 57 37	198 0 55 63 80 1,262	157 4 36 51 66 1,404	189 3 33 83 70 1,578	168 6 23 80 59 1,508	1,128 25 218 443 442 8,685
BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD	139 95 44 12 9 38	142 93 53 7 18 28	189 104 68 27 17 32	212 125 67 21 26 34	275 146 85 29 18 38	354 195 89 34 25 45	628 305 169 44 40 76	692 323 198 51 47 93	814 352 218 68 36 90	851 316 183 51 34 73	4,296 2,054 1,174 344 270 547
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	52 25 27	52 28 24	66 36 30	78 40 38	101 53 48	104 59 45	190 84 106	215 91 124	158 64 94	188 86 102	1,204 566 638
SOUTHERN AREA	23 4 9 10	26 10 10 6	32 11 12 9	24 5 9 10	40 16 16 8	48 19 17 12	74 25 36 13	94 27 34 33	71 25 19 27	82 25 26 31	514 167 188 159
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	55 21 3 4 2 2 6 10 1 6	57 24 1 4 8 1 2 10 3 4	60 22 0 2 4 3 5 17 2	68 22 4 7 2 6 5 14 4	75 25 3 9 7 4 0 15 2	77 26 3 4 3 5 1 17 4	132 28 4 6 9 10 5 44 6 20	139 57 4 6 8 10 28 3 15	147 58 2 16 7 10 6 30 8	160 53 10 11 11 13 10 29 9	970 336 34 69 61 62 50 214 42

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent ingestion of opioids. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL					HEROIN	-RELATED [DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	238	247	392	464	578	748	1,212	1,078	830	726	6,513
NORTHWEST AREA	15 0 3 6 6	23 1 3 8 11	27 0 6 11 10	40 2 3 14 21	53 1 5 21 26	80 3 13 38 26	119 0 34 39 46	72 1 14 22 35	68 1 15 29 23	58 1 9 25 23	555 10 105 213 227
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	171 93 42 18 3 3	165 76 38 24 2 10	272 131 64 38 13 12	319 150 76 41 14 16 22	379 192 86 53 16 9 23	519 260 134 60 22 16 27	858 454 208 105 25 24 42	772 380 170 118 28 23 53	572 286 119 75 34 15	505 279 111 63 18 10 24	4,532 2,301 1,048 595 175 138 275
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	26 12 14	23 11 12	42 22 20	53 28 25	65 33 32	69 37 32	115 48 67	104 52 52	78 34 44	81 39 42	656 316 340
SOUTHERN AREACALVERTCHARLESST MARY'S	11 1 6 4	15 5 6 4	18 6 5 7	13 2 5 6	28 13 10 5	29 15 8 6	48 17 22 9	45 17 16 12	31 8 11 12	30 10 12 8	268 94 101 73
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	15 4 0 2 0 0 2 5 0 2 2 5	21 8 1 2 3 1 1 3 1	33 11 0 2 3 2 3 9 2	39 11 0 5 2 2 3 11 1	53 15 2 7 6 4 0 12 1 6	51 16 1 1 2 3 1 13 3 11	72 19 1 4 6 4 3 21 3	85 37 1 5 4 3 4 20 2	81 40 0 8 3 4 3 12 5	52 16 3 5 4 5 9 1 6	502 177 9 39 34 27 25 115 19

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent heroin use. 2 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, 2010-2019. 1,2

REGION AND POLITICAL				PRE	SCRIPTION	OPIOID-REI	_ATED DEA	ГНS			_
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	311	342	311	316	330	351	418	413	379	369	3,540
NORTHWEST AREA	22 1 8 7 6	38 1 5 11 21	30 0 5 9 16	35 2 8 11 14	33 2 6 16 9	39 1 6 20 12	56 0 15 23 18	35 1 9 8 17	34 1 5 19 9	33 1 5 17 10	355 10 72 141 132
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	197 61 60 31 9 6	212 82 68 33 5 9	196 74 47 33 17 5	207 86 54 28 12 13	217 84 59 32 15 7 20	233 105 62 27 14 9 16	265 113 67 48 15 6	298 123 87 43 13 13	272 128 71 36 16 2	258 134 60 27 13 9 15	2,355 990 635 338 129 79 184
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	31 14 17	35 20 15	29 18 11	30 16 14	35 19 16	36 23 13	42 26 16	33 19 14	27 16 11	28 15 13	326 186 140
SOUTHERN AREACALVERTCHARLESST MARY'S	16 3 4 9	15 7 5 3	18 6 7 5	12 3 5 4	19 7 9 3	19 6 8 5	25 11 10 4	26 5 11 10	22 6 8 8	23 5 7 11	195 59 74 62
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	45 20 3 2 2 2 4 7 1	42 20 1 2 5 0 1 7 3	38 18 0 0 1 1 1 3 9 2	32 12 4 3 0 4 3 4 2	26 12 2 3 1 0 0 3 1 4	24 10 2 3 0 2 0 5 1	30 8 0 2 4 3 2 7 0 4	21 8 2 2 1 4 2 0 1 1	24 5 0 4 1 2 2 5 2 3	27 6 0 0 3 5 3 5 2 3	309 119 14 21 18 23 20 52 15

 $^{^1}$ Includes deaths confirmed or suspected to be related to recent ingestion of one or more prescription opioids. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL					OXYCODO	NE-RELATE	D DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	113	118	99	86	120	104	157	122	103	124	1,146
NORTHWEST AREA	7 0 2 2 2 3	11 0 0 5 6	13 0 2 2 9	12 1 3 5 3	10 0 3 5 2	11 0 2 6 3	25 0 7 11 7	16 0 3 2 11	13 0 2 7 4	18 1 2 9 6	136 2 26 54 54
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	59 5 21 9 6 4 14	63 15 22 14 3 2	51 15 12 11 6 2 5	44 11 14 9 3 4 3	69 20 22 10 4 4 9	56 18 16 12 3 4 3	77 22 22 23 3 2 5	73 23 21 15 4 5	67 21 20 15 7 0 4	64 22 18 11 4 3 6	623 172 188 129 43 30 61
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	15 7 8	14 9 5	11 8 3	13 7 6	17 11 6	16 8 8	25 16 9	13 8 5	7 4 3	15 6 9	146 84 62
SOUTHERN AREACALVERTCHARLESST MARY'S	7 2 2 3	10 4 4 2	10 5 3 2	6 3 1 2	11 3 5 3	13 3 8 2	13 7 4 2	14 3 7 4	10 1 5 4	16 4 4 8	110 35 43 32
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	25 13 2 1 1 1 2 2 1 2	20 9 0 1 0 0 1 5 2	14 4 0 0 0 1 1 5 1 2	11 6 1 1 0 1 0 1 1	13 6 0 1 0 0 0 2 1 3	8 3 1 2 0 0 0 1 0	17 2 0 1 3 2 2 5 0 2	6 2 0 0 2 1 0 0	6 0 0 1 1 0 1 2 1 0	11 2 0 0 2 2 1 3 1	131 47 4 8 7 9 9 26 8 13

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent ingestion of oxycodone. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL					METHADO	NE-RELATE	D DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	173	172	170	138	152	183	197	246	196	201	1,828
NORTHWEST AREA GARRETT ALLEGANY WASHINGTON FREDERICK	8 1 3 3 1	14 0 4 5	14 0 1 4 9	8 1 1 3 3	20 1 3 10 6	14 0 2 6 6	12 0 4 5 3	11 0 3 4 4	14 0 2 10 2	10 0 2 6 2	125 3 25 56 41
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	128 53 37 17 2 2	128 65 32 17 2 5	122 54 28 15 12 1	110 57 29 6 7 5	112 54 31 14 5 2	145 78 34 9 5 10	158 82 36 21 9 2	198 87 63 23 6 8	155 85 37 12 6 1	166 98 36 12 8 6	1,422 713 363 146 66 37 97
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	12 5 7	13 6 7	13 7 6	7 3 4	6 5 1	9 6 3	13 7 6	14 6 8	7 4 3	6 4 2	100 53 47
SOUTHERN AREA	7 1 1 5	3 2 0 1	5 2 1 2	2 0 1 1	7 2 4 1	6 3 2 1	6 2 2 2 2	9 3 3 3	7 4 2 1	6 0 2 4	58 19 18 21
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	18 9 2 1 1 1 0 3 0	14 9 1 1 1 0 0 1 1	16 10 0 0 1 1 1 1 0 2	11 4 2 1 0 2 0 2 0	7 4 1 0 1 0 0 0 0 0	9 3 1 1 0 1 0 2 1 0	8 3 0 1 2 1 0 0 0	14 4 2 2 1 1 2 2 0 1 0	13 5 0 3 0 1 1 1 0 2	13 4 0 0 1 2 2 2 1 1	123 55 9 10 8 11 6 12 4

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent ingestion of methadone. 2 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, 2010-2019. 1,2

REGION AND POLITICAL					FENTANY	L-RELATED	DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	39	26	29	58	186	340	1,119	1,594	1,888	1,927	7,206
NORTHWEST AREA	6 0 2 2 2 2	6 1 1 1 3	3 0 1 1 1	7 0 1 4 2	8 0 1 1 6	32 2 5 14 11	109 0 29 31 49	119 2 29 39 49	166 2 29 70 65	146 5 19 70 52	602 12 117 233 240
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	20 4 6 5 2 0 3	10 2 4 2 0 0 2	16 4 5 3 1 2	35 12 11 6 2 3	142 72 36 23 4 5	248 120 65 29 11 7	792 419 182 98 20 27 46	1,118 573 244 152 40 36 73	1,415 758 308 184 55 34 76	1,395 810 285 164 47 28 61	5,191 2,774 1,146 666 182 142 281
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	3 1 2	0 0 0	3 2 1	6 0 6	15 8 7	32 17 15	101 43 58	175 72 103	115 40 75	167 76 91	617 259 358
SOUTHERN AREACALVERTCHARLESST MARY'S	1 0 0 1	3 1 1 1	1 0 1 0	4 0 3 1	9 5 1 3	9 2 4 3	32 11 17 4	74 22 26 26	60 23 14 23	74 23 24 27	267 87 91 89
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	9 2 0 0 1 1 2 1 1	7 2 0 0 4 0 0 1 0	6 0 0 0 0 1 0 4 0	6 0 0 1 0 0 2 1 2 0	12 1 1 1 0 2 0 7 0	19 7 0 0 1 2 1 1 1 6	85 9 3 4 3 7 3 34 6 16	108 44 3 5 7 3 7 24 3 12	132 52 2 16 6 10 4 24 8 10	145 49 10 10 9 11 9 26 9	529 166 19 37 31 37 28 123 30 58

 $^{^1}$ Includes deaths confirmed or suspected to be related to recent ingestion or exposure to pharmaceutical or nonpharmaceutical fentanyl. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL					COCAINE	E-RELATED	DEATHS				
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	135	148	153	154	198	221	464	691	891	869	3,924
NORTHWEST AREA	8 1 1 3 3	10 0 0 3 7	9 0 2 5 2	13 0 2 6 5	16 0 2 6 8	20 1 5 10 4	27 0 9 9	43 1 13 10 19	67 0 12 31 24	51 3 6 24 18	264 6 52 107 99
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	93 45 23 13 6 1	97 48 19 18 3 5	108 59 17 13 7 7 5	102 47 27 12 7 5 4	138 82 28 19 2 3	167 93 38 19 6 6 5	348 202 80 31 8 7 20	522 285 123 66 14 16	693 388 132 91 23 19 40	647 380 138 72 24 9 24	2,915 1,629 625 354 100 78 129
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	16 4 12	24 12 12	22 12 10	25 13 12	29 10 19	16 5 11	44 11 33	62 17 45	49 18 31	74 29 45	361 131 230
SOUTHERN AREACALVERTCHARLESST MARY'S	7 3 2 2	3 2 1 0	6 3 1 2	1 0 0 1	3 2 0 1	6 0 2 4	8 2 4 2	19 3 10 6	33 3 13 17	39 9 12 18	125 27 45 53
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	11 3 1 0 0 0 1 1 3 1 2	14 7 0 1 1 0 1 3 0	8 2 0 0 1 0 1 4 0	13 5 0 0 3 1 3 0	12 4 1 0 1 0 0 4 0 2	12 3 1 0 0 1 0 7 0	37 3 0 1 5 2 1 13 4 8	45 15 1 2 2 2 7 7 2 7	49 14 1 5 1 3 2 13 6 4	58 12 4 6 2 6 5 21 2	259 68 9 15 13 17 19 78 15 25

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent use of cocaine. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL				В	ENZODIAZE	PINE-RELA	TED DEATH	S			
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	58	68	73	69	103	91	126	146	127	107	968
NORTHWEST AREA	6 0 3 2 1	9 0 1 4 4	5 0 0 3 2	6 1 1 2 2	13 0 3 5 5	8 1 1 3 3	21 0 6 6 9	19 2 5 2 10	10 0 1 4 5	9 1 1 2 5	106 5 22 33 46
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	43 12 18 6 3 2	39 9 14 0 4 3	49 15 12 11 1 2 8	44 14 16 3 3 5	66 22 24 9 3 0	56 15 18 11 4 6	78 24 29 9 1 8 7	98 28 25 27 4 5	90 28 32 16 4 1	64 27 17 11 3 1	627 194 200 117 26 34 56
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	4 4 0	9 6 3	6 4 2	7 4 3	12 10 2	8 7 1	12 7 5	15 8 7	15 9 6	17 10 7	105 69 36
SOUTHERN AREA	2 1 0 1	2 1 0 1	4 1 2 1	4 1 1 2	6 3 2 1	7 1 4 2	7 1 4 2	8 2 4 2	4 2 1 1	7 0 3 4	51 13 21 17
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	3 2 0 1 0 0 0 0 0	9 6 0 1 0 0 0 1 0	9 7 0 0 0 0 1 0 1	8 3 0 0 3 1 0 1	6 3 0 0 0 0 0 1 0 2	12 5 0 1 0 1 0 2 0 3	8 2 1 1 0 1 1 1 0	6 1 2 0 1 1 0 0 0 0	8 2 0 3 0 0 0 1 0 2	10 4 0 0 1 1 1 1 0 2	79 35 3 7 2 7 4 7 2 12

 $^{^1}$ Includes deaths confirmed or suspected to be related to recent ingestion of a benzodiazepine or related drug with sedative effects. 2 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, 2010-2019.^{1,2}

REGION AND POLITICAL				F	PHENCYCLI	DINE-RELAT	ED DEATHS	3			
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	5	10	16	8	15	14	32	28	37	58	223
NORTHWEST AREA GARRETT ALLEGANY WASHINGTON FREDERICK	0 0 0 0	0 0 0 0	1 0 0 0 0	0 0 0 0	1 0 0 0	2 0 0 1 1	4 0 0 0 4	1 0 0 1 0	4 0 0 0 4	3 0 0 0 3	16 0 0 2 14
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	1 0 0 1 0 0	4 1 0 3 0 0	7 2 1 2 1 1 0	4 1 1 1 0 1	3 1 0 1 0 1 0	2 1 0 1 0 0 0	11 2 2 6 0 1	8 2 1 5 0 0	9 3 0 5 0 1	23 8 2 11 0 2	72 21 7 36 1 7
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	3 1 2	4 2 2	6 1 5	3 0 3	10 1 9	8 1 7	13 2 11	16 2 14	20 4 16	25 2 23	108 16 92
SOUTHERN AREACALVERTCHARLESST MARY'S	0 0 0 0	1 1 0 0	2 0 2 0	1 0 1 0	1 0 1 0	2 1 0 1	3 0 3 0	2 2 0 0	4 1 3 0	6 2 4 0	22 7 14 1
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	1 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 1 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 1 0	1 0 0 0 0 0 0 0 1 0	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0 0	5 1 0 0 0 0 1 2 0

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent ingestion of phencyclidine. 2 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, 2010-2019.1,2

REGION AND POLITICAL				ME	THAMPHET	AMINE-REL	ATED DEAT	HS			
SUBDIVISION	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	0	0	2	6	3	10	18	28	32	41	140
NORTHWEST AREA	0 0 0 0	0 0 0 0	1 0 0 0 1	1 0 1 0 0	0 0 0 0	1 0 0 1 0	2 0 1 1 0	5 2 0 1 2	6 1 2 3 0	11 1 2 7 1	27 4 6 13 4
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	0 0 0 0 0	0 0 0 0 0	1 1 0 0 0 0	3 2 1 0 0 0	1 1 0 0 0 0	4 1 0 0 1 2 0	12 8 1 0 0 2	12 5 1 2 1 1 2	13 5 4 2 1 1	13 7 4 2 0 0	59 30 11 6 3 6
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	0 0 0	0 0 0	0 0 0	2 0 2	0 0 0	4 0 4	3 1 2	4 2 2	4 1 3	6 3 3	23 7 16
SOUTHERN AREACALVERTCHARLESST MARY'S	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 0 1 0	1 0 1 0	3 1 2 0	1 1 0 0	1 1 0 0	7 3 4 0
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	2 0 0 0 1 0 0 1 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0	4 4 0 0 0 0 0 0 0 0 0	8 6 0 0 0 0 0 1 0 1	10 8 1 0 1 0 0 0	24 18 1 0 2 0 0 2 0

 $[\]frac{1}{2}$ Includes deaths confirmed or suspected to be related to recent ingestion of methamphetamine.

TABLE 12: TOTAL NUMBER OF ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, 2010-2019.^{1,2}

REGION AND POLITICAL SUBDIVISION	ALCOHOL-RELATED DEATHS										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
MARYLAND	161	161	195	239	270	310	582	517	472	423	3,330
NORTHWEST AREA	15 1 4 5 5	16 1 2 4 9	12 0 4 3 5	21 2 2 6 11	27 1 3 11 12	30 1 6 10 13	47 1 14 17 15	31 2 4 14 11	34 1 7 15 11	37 2 3 20 12	270 12 49 105 104
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	94 39 29 10 4 3	99 44 22 21 4 4	126 71 24 15 4 6	154 86 32 22 4 6	166 86 39 18 9 6	215 114 52 27 6 5	403 222 81 56 12 14	334 198 71 37 9 7	339 187 80 44 10 5	273 165 53 34 6 4	2,203 1,212 483 284 68 60 96
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	27 10 17	28 16 12	38 15 23	35 13 22	36 18 18	32 15 17	67 22 45	86 35 51	51 19 32	58 19 39	458 182 276
SOUTHERN AREACALVERTCHARLESST MARY'S	6 0 4 2	7 2 3 2	7 2 2 3	7 1 4 2	12 4 5 3	11 3 4 4	22 7 12 3	24 4 9 11	17 9 3 5	18 5 10 3	131 37 56 38
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	19 6 1 1 0 0 1 4 0 6	11 3 0 3 1 0 0 2 1	12 6 0 0 2 1 2 1 0	22 9 1 1 1 2 0 6 1	29 5 1 7 2 0 0 7 2 5	22 8 0 0 0 1 3 2 8	43 8 1 2 5 0 1 12 3 11	42 12 1 4 4 5 2 9 1	31 10 0 3 1 4 1 8 0 4	37 5 1 1 2 5 5 12 1 5	268 72 6 22 16 18 12 65 12

 $^{^{1}}$ Includes deaths confirmed or suspected to be related to recent ingestion of alcohol. 2 Includes only deaths for which the manner of death was classified as accidental or undetermined.