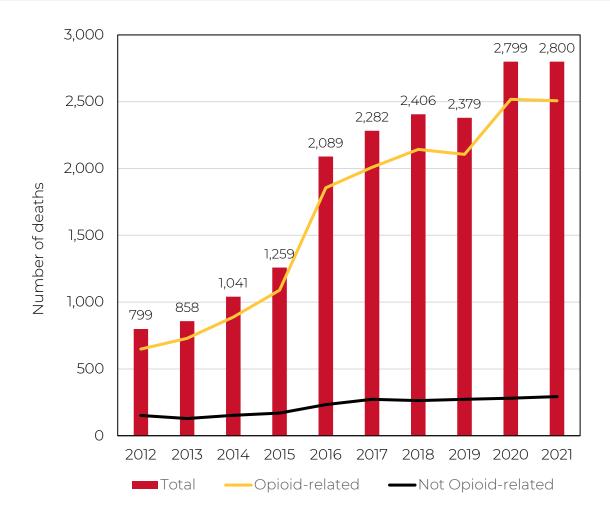
Maryland Vital Statistics



Unintentional Drug- and Alcohol-Related Intoxication Deaths in Maryland, 2021

Release Date: August 2023



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METHODS

<u>Introduction</u>

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 2012-2021. 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 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. Information compiled during the investigation is used to complete the death certificate literal text fields for indicated cause of death, other significant conditions and circumstances of death.

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. These 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

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.

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.

Identification of drug-related intoxication deaths

For this report, an intoxication death was defined as a death that occurred in Maryland (resident or non-resident) that was the result of recent ingestion or exposure to alcohol or another type of drug, including heroin, fentanyl, prescription opioids, cocaine, methamphetamines, benzodiazepines, and other prescribed and unprescribed drugs. OCME provided all records to VSA for which the literal 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. It should be noted that this non-standardized definition limits comparisons of these data outside of Maryland.

Analyses

Trends in the number of unintentional drug- and alcohol-related intoxication deaths occurring in Maryland during the years 2012-2021 were analyzed by age group, gender, place of occurrence of death, and substances related to the death. Beginning with 2021, race was reported in accordance with the 1997 OMB standards based on 6 categories and should not be directly compared with previous years. Deaths related to the following substances were examined in this report:

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

As the drug supply continues to change, new trends in substances and drug combinations emerge. Xylazine, a non-opioid sedative not approved for human use, has been increasingly detected in the U.S. drug supply – particularly in illicitly manufactured fentanyl products. Beginning in 2021, drug combinations involving

xylazine were added to this report (Figure 27). In 2021, more than 99% of xylazinerelated deaths occurred in combination with fentanyl.

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

Northwest	Baltimore	National Capital	Southern	Eastern Shore
Area	Metro Area	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.

Crude death rates

Beginning in 2021, crude death rates (not age-adjusted) by place of occurrence are provided for all drug- and alcohol intoxication deaths. It's important to note that rates are based on a resident only population (denominator), yet non-resident deaths are included in the calculation (numerator). Therefore, death rate estimates may be less accurate. These rates should also not be compared with jurisdictions outside of Maryland due to the non-standardized case definition.

Age-adjusted death rates

Age-adjusted death rates by place of residence are shown in Figures 28 and 29. 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. Additionally, these rates are among all Maryland residents (i.e., do not include any out-of-state residents). This is different from other data in this report, both Maryland residents and non-residents are included if the death occurred in Maryland.

These age-adjusted rates use International Classification of Disease (ICD)-10 codes indicative of alcohol or drug intoxication or poisoning. Specifically, deaths for all unintentional alcohol and drug-related deaths were identified by underlying cause of deaths ICD-10: X40-X45 and Y10-Y15. Drug category ICD-10 codes: T40.0-T40.4 and T40.6 were additionally used to identify opioid-related deaths.

The Vital Statistics Administration (VSA) compiles all death certificates from across Maryland and submits them to the National Center of Health Statistics to assign ICD-10

codes to the literal cause of death text fields. All literal cause of death text fields receive an ICD-10 code; however, only one cause of death and corresponding ICD-10 code is assigned as the underlying cause of death. The process for assigning ICD-10 codes is standardized in all states.

** 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 associated with a death if a specific opioid 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 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 illicitly manufactured 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 have involved the use of illicitly manufactured fentanyl. Fentanyl is many times more potent than heroin, and greatly increases the risk of an overdose death.

Cocaine-related deaths

Cocaine is a highly addictive psychostimulant drug that is frequently mixed with other non-psychoactive substances, such as cornstarch or talcum powder, to dilute its potency. Cocaine has also been mixed with fentanyl.

Methamphetamine-related deaths

Methamphetamine is another highly addictive psychostimulant drug with abuse potential. Methamphetamine has also been found to be mixed with fentanyl or other opioids.

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, this substance has been mixed with fentanyl.

TOTAL INTOXICATION DEATHS

In 2021, there were 2,800 unintentional drug- and alcohol-related intoxication deaths occurring in Maryland. Over a ten-year period, the number of intoxication deaths has increased in the state [Figure 1], with a slight decrease in 2019. Opioids, particularly illicitly manufactured fentanyl, is the substance most commonly involved in intoxication deaths [Figure 2]. In recent years, the number of heroin-related deaths has decreased while the number of cocaine-related deaths has increased.

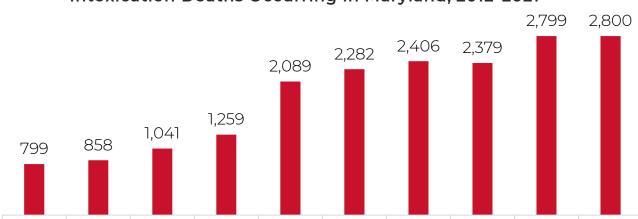
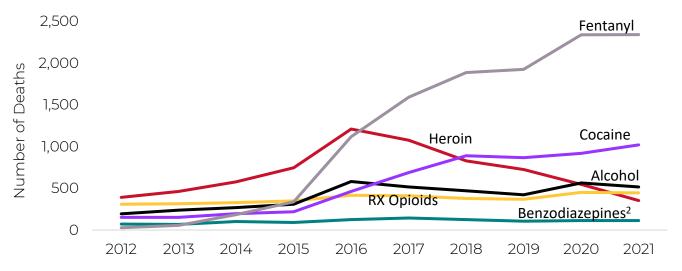


Figure 1. Total Number of Unintentional Drug- and Alcohol-Related Intoxication Deaths Occurring in Maryland, 2012-2021

Figure 2. Total Number of Unintentional Drug- and Alcohol-Related Intoxication Deaths by Selected Substances¹, Maryland, 2012-2021



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.

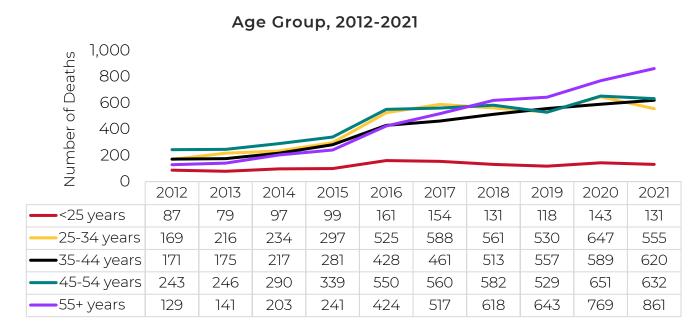
Population Characteristics: Drug and Alcohol-Related Deaths

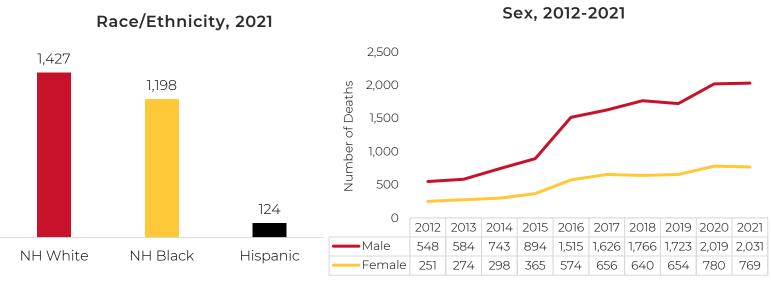
In 2021, individuals aged 55 years and over had the highest number of deaths among all age groups (861), accounting for approximately 30 percent of all intoxication deaths occurring in Maryland. Deaths in this older age group have been increasing over the last decade. In 2021, approximately two-thirds of deaths were among those aged 25-54 years. [Figure 3]

In 2021, there were 1,427 unintentional drug- and alcohol-related deaths occurring in Maryland among non-Hispanic white individuals, which accounted for approximately half of all deaths. Yet, the overall death rate was nearly 1.5 times higher for non-Hispanic black individuals (64.3 per 100,000) compared to non-Hispanic white individuals (47.2 per 100,000). The overall death rate was 18.1 per 100,000 for Hispanic individuals in 2021 [Figure 3A].

Figure 3. Number of Unintentional Drug- and Alcohol-Related Intoxication

Deaths Occurring in Maryland by:



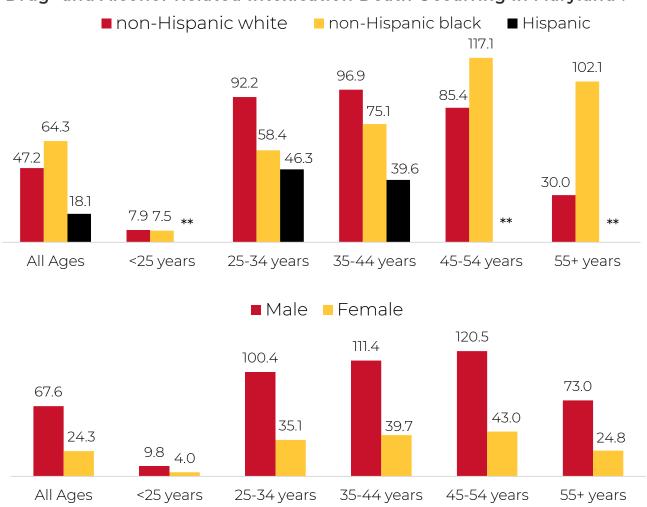


Population Characteristics: Drug and Alcohol-Related Deaths

By age group, non-Hispanic white individuals aged 25-34 or 35-44 had higher rates of death compared to non-Hispanic black or Hispanic individuals. In the 25-34 age group, the death rate was nearly twice as high among non-Hispanic white individuals (92.2) compared to non-Hispanic blacks (58.4). Conversely, non-Hispanic black individuals had higher rates of death in the 45-54 and 55 and over age groups compared to non-Hispanic white individuals. In the 55 and over age group, the death rate among non-Hispanic black individuals (102.1) was nearly 3.5 times the rate among non-Hispanic whites (30.0) [Figure 3A, Table 15].

Over the last decade, more males than females died of an intoxication death in Maryland [Figure 3]. In 2021, intoxication death rates (per 100,000) were more than 2.5 times higher among males (67.6) than females (24.3) in 2021. Among both males and females, the highest rates were among those aged 45-54-years, 120.5 and 43.0, respectively [Figure 3A, Table 15].

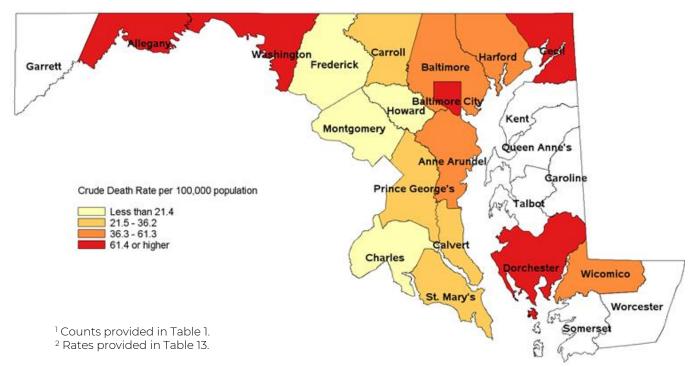
Figure 3A. Age-Specific Rates by Race/Ethnicity or Sex for Unintentional Drug- and Alcohol-Related Intoxication Death Occurring in Maryland¹:



¹ Death occurred in Maryland; calculation of crude rates includes resident and non-resident data in numerator and 2021 resident only population estimates from the U.S. Census in denominator. This may result in less accurate rates compared to resident only data. Further, these rates are not comparable with rates from other jurisdictions outside of Maryland as these rates are based on data from the literal text in the cause of death field on the death certificate rather than standardized ICD-10 codes.

^{**} Rates with less than 20 deaths in the numerator are not calculated.

Figure 4. Crude Rate of Unintentional Drug and Alcohol-Related Intoxication Deaths by Place of Occurrence, 2021^{1,2,3}



³ Death occurred in Maryland; calculation of crude rates includes resident and non-resident data in numerator and 2021 resident only population estimates from the U.S. Census in denominator. This may result in less accurate rates compared to resident only data. Further, these rates are not comparable with rates from other jurisdictions outside of Maryland as these rates are based on data from the literal text in the cause of death field on the death certificate rather than standardized ICD-10 codes.

Geographic Variation

In 2021, jurisdictions with the highest number of deaths were: Baltimore City (1079), Baltimore County (390), Anne Arundel (230), Prince George's (225) and Montgomery (142) [Table 1].

Accounting for population size, jurisdictions with highest crude death rates (per 100,000) were: Baltimore City (187.2), Cecil (83.7), Dorchester (67.7), Washington (66.5), and Allegany (66.4) [Figure 4, Table 13].

Several jurisdictions had rates among non-Hispanic black individuals that were higher than the state rate: Baltimore City (205.9) and Washington (149.7). Similarly, the jurisdictions with the highest death rates among non-Hispanic white individuals included: Baltimore City (192.0) and Cecil (90.8), Allegany (61.8), Baltimore County (59.8), and Washington (59.6). Race-specific rates for all jurisdictions can be found in Table 13A.

In Baltimore City, the highest death rates were among those aged 45-54 years (375.7), followed by those 55 and over (294.3) and those 35-44 years (237.0). Age-specific rates for all other jurisdictions can be found in Table 14A.

OPIOID-RELATED DEATHS

Nearly ninety percent of all intoxication deaths that occurred in Maryland in 2021 were opioid-related. The number of opioid-related deaths remained similar between 2020 and 2021 (2,518 vs 2,507, respectively), following a 20% increase between 2019 and 2020 [Figure 5, Table 2].

Fentanyl-related deaths continued to drive opioid-related deaths in 2021 and were involved in about 84% of all intoxication deaths [Figure 7, Table 7]. The number of heroin-related deaths declined for the fifth straight year, decreasing by nearly 71% between 2016 and 2021 [Figure 7, Table 3].

Figure 5. Number of Unintentional Opioid¹ and non-Opioid Related Deaths
Occurring in Maryland, 2012-2021



¹Total opioids include heroin, prescription opioids, and illicit forms of fentanyl.

Figure 6. Number of Unintentional Opioid-Related Intoxication Deaths by Place of Occurrence, 2021¹

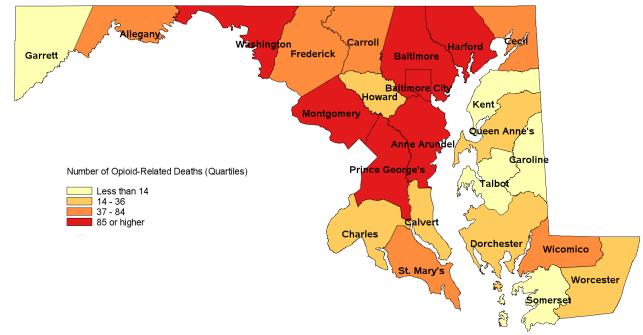


Figure 7. Number of Unintentional Opioid-Related Deaths
Occurring in Maryland by Substance, 2012-2021

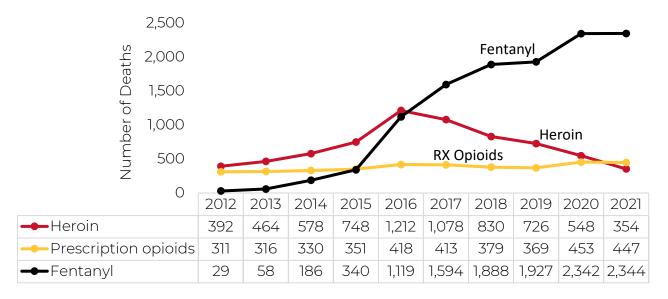
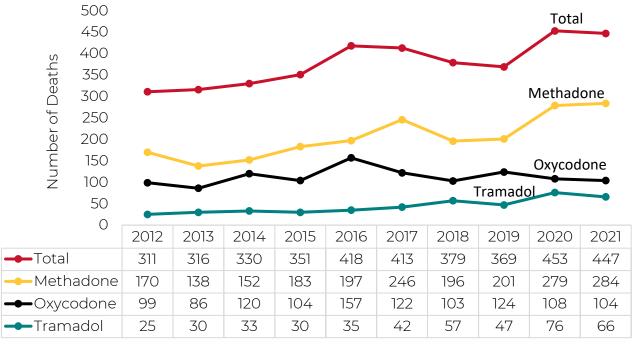


Figure 8. Number of Unintentional Intoxication Deaths Occurring in Maryland by Selected Prescription Opioids, 2012-2021¹



¹ Counts by jurisdiction provided in provided in Tables 4, 5, and 6.

The number of prescription opioid-related deaths remained similar between 2020 and 2021, from 453 to 447, respectively [Figure 7]. Previously, the number of prescription opioid-related deaths had increased from 2013 to 2016. Then after a three-year decrease, deaths increased between 2019 and 2020, rising by 23%. The trends in the number of unintentional prescription opioid-related deaths continues to be driven by methadone, the substance most commonly involved. The number of deaths involving oxycodone have continued to decrease from an all-time high of 157 deaths in 2016. The number of deaths involving tramadol have increased by nearly 57% from 2017 to 2021. [Figure 8]

Population Characteristics: Fentanyl-Related Deaths

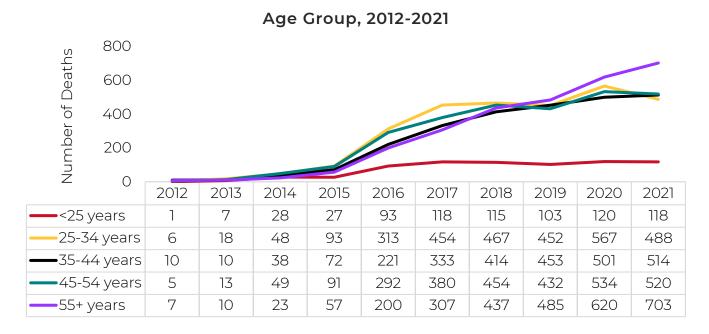
In 2021, the highest number of fentanyl-related deaths occurring in Maryland were among those aged 55 or over, a nearly 14% increase from 2020. Among those aged 25-34 years, the number of fentanyl-related deaths decreased nearly 14% between 2020 and 2021.

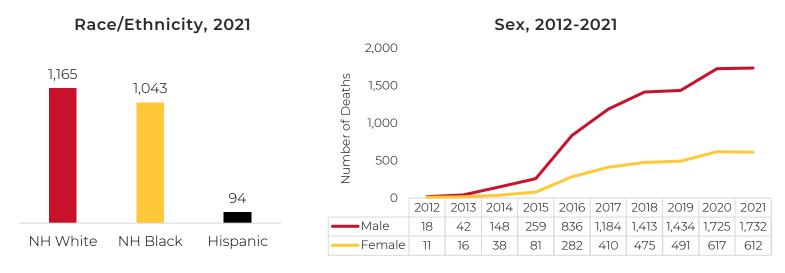
Approximately 45% of fentanyl-related deaths were among non-Hispanic black individuals and nearly half of deaths were in non-Hispanic white individuals.

Seven out of ten fentanyl-related deaths occurring in Maryland were among males. The number of deaths by sex remained stable in 2021, following a 20% increase among males and 26% increase among females in 2020 from 2019.

Figure 9. Number of Unintentional Fentanyl-Related Intoxication Deaths

Occurring in Maryland by:





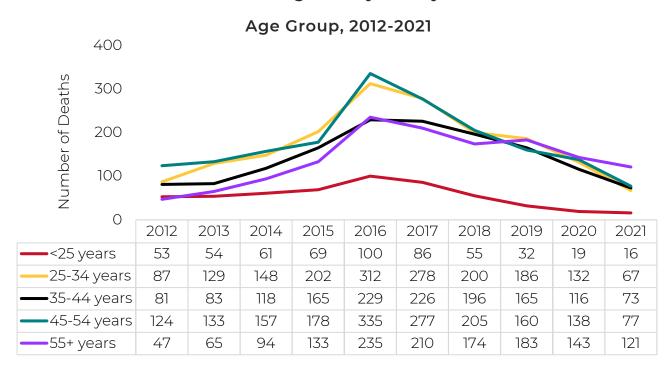
Population Characteristics: Heroin-Related Deaths

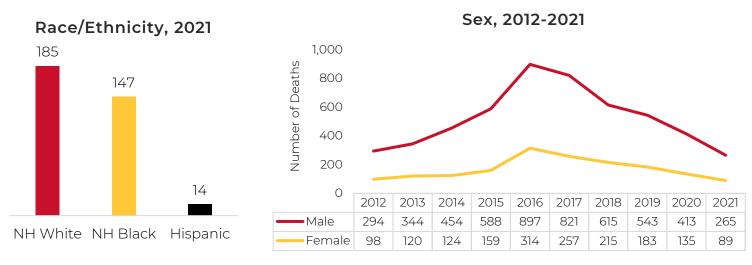
The overall number of heroin-related deaths across all age groups has been decreasing since 2017. In 2021, those 55 years and over experienced the most heroin-related deaths.

More than half of heroin-related deaths were among non-Hispanic white individuals (52.3%)., 41.5% were among non-Hispanic black individuals, and 4% among Hispanic individuals. The heroin-related death rate among non-Hispanic black individuals was 1.3 times the rate among non-Hispanic white individuals [Table 15].

Males continue to account for nearly three quarters of heroin-related deaths. The heroin-related death rate among males was more than 3 times the rate among females [Table 15].

Figure 10. Number of Unintentional Heroin-Related Intoxication Deaths
Occurring in Maryland by:





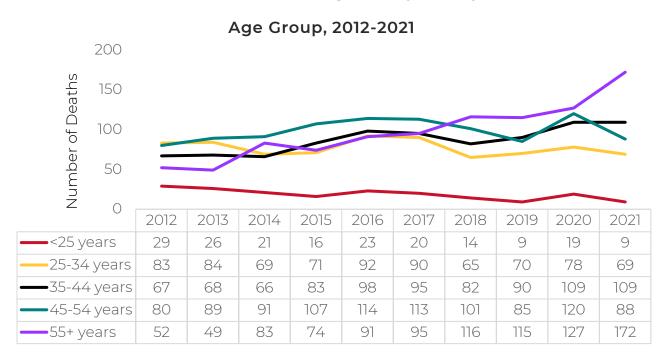
Population Characteristics: Prescription Opioid-Related Deaths

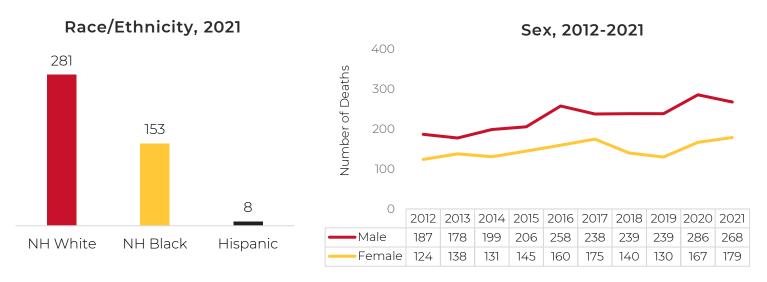
In 2021, the highest number of prescription opioid related deaths were among those aged 55 or over, a 35% increase from 2020. Among those aged 45-54 years, the number of prescription-opioid related-deaths decreased nearly 27% between 2020 and 2021.

Nearly two thirds of prescription opioid-related deaths were among non-Hispanic white individuals and 34% were among non-Hispanic black individuals. Though males continue to account for nearly 60% of prescription opioid-related deaths, deaths among females has increased slightly, account for about 40% of deaths in 2021 compared to 35% in 2019.

Figure 11. Number of Unintentional Prescription Opioid-Related Intoxication

Deaths Occurring in Maryland by:





COCAINE-RELATED DEATHS

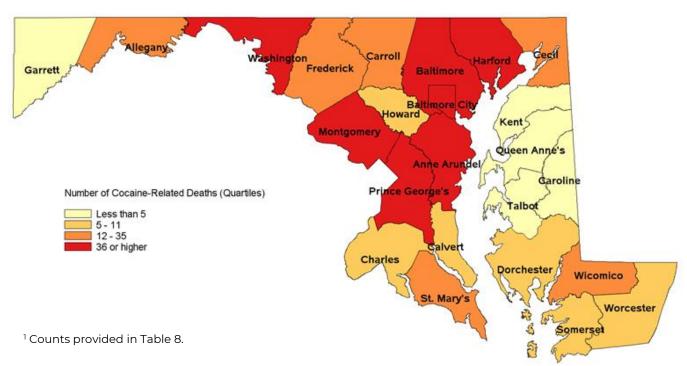
The number of cocaine-related deaths increased nearly 11% from 921 deaths in 2020 to 1,021 in 2021. Since 2015, the number of cocaine-related deaths in combination with opioids has increased. Cocaine-related deaths occurred more than 90% of the time in combination with opioids in 2021 [Figure 12].

1,000 St 800 O 600 O 400 E 200

Figure 12. Number of Unintentional Cocaine-Related Deaths
Occurring in Maryland, 2012-2021



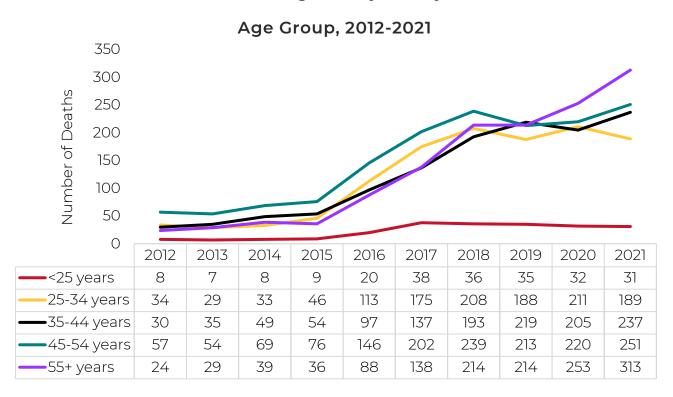
Figure 13. Number of Unintentional Cocaine-Related Deaths by Place of Occurrence in Maryland, 2021¹

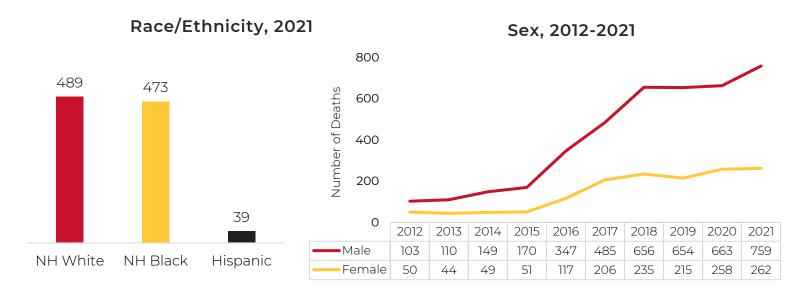


Population Characteristics: Cocaine-Related Deaths

Those 55 years and over experienced the most cocaine-related deaths in 2021, a nearly 24% increase from 2020. Forty-eight percent of cocaine-related deaths were among non-Hispanic white individuals and 46% were among non-Hispanic black individuals. The cocaine-related death rate among non-Hispanic black individuals was 1.5 times the rate among non-Hispanic white individuals [Table 15]. In 2021, 7 out of 10 cocaine-related deaths were among males (759) compared to 262 deaths among females. The number of deaths among males increased by nearly 15% from 2020 to 2021. [Figure 14]

Figure 14. Number of Unintentional Cocaine-Related Intoxication Deaths
Occurring in Maryland by:





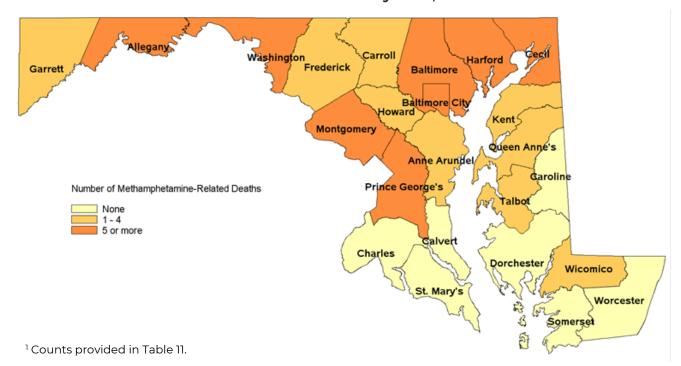
METHAMPHETAMINE-RELATED DEATHS

The number of methamphetamine-related deaths increased nearly 30% in 2021 to 99 deaths, an all-time high. The number of methamphetamine-related deaths has been increasing since 2015, particularly in combination with opioids. Methamphetamine-related deaths occurred about 80% of the time in combination with opioids in 2021 [Figure 15]. Though the number of deaths per county from this substance is sparse, Cecil County had 28 deaths in 2021, which was nearly twice as high as the next highest jurisdiction [Figure 16].

Figure 15. Number of Unintentional Methamphetamine-Related Deaths
Occurring in Maryland, 2012-2021



Figure 16. Number of Unintentional Methamphetamine-Related Deaths by Place of Occurrence in Maryland, 2021¹



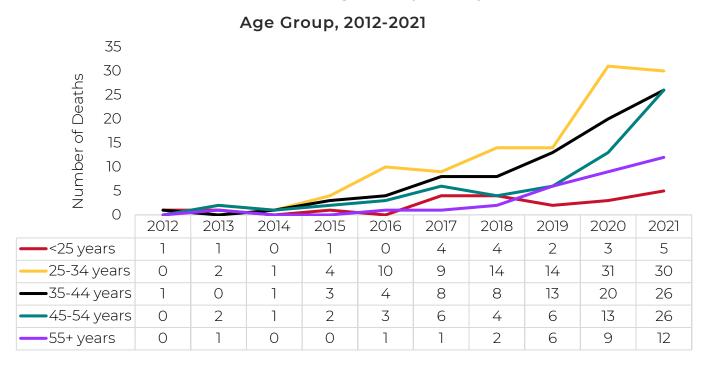
Population Characteristics: Methamphetamine-Related Deaths

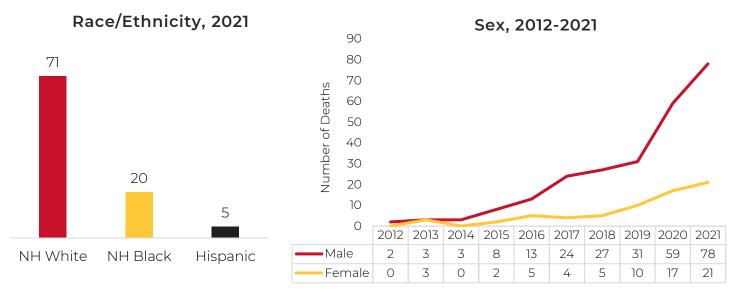
Those aged 25-34 years experienced the most methamphetamine-related deaths in 2021, after more than doubling between 2019 and 2020. The number of deaths among those aged 45-54 years doubled between 2020 and 2021.

Nearly 72% percent of methamphetamine-related deaths were among non-Hispanic white individuals and 20% were among non-Hispanic black individuals. The methamphetamine-related death rate among non-Hispanic white individuals was 2.2 times the rate among non-Hispanic black individuals [Table 15]. Almost 8 out of 10 methamphetamine-related deaths were among males, 78 compared to 21 deaths among females in 2021. [Figure 17]

Figure 17. Number of Unintentional Methamphetamine-Related Intoxication

Deaths Occurring in Maryland by:





BENZODIAZEPINE-RELATED DEATHS

The number of benzodiazepine-related deaths remained the same between 2020 and 2021 (114 deaths) and remains below the all-time high of 146 deaths in 2017. The number of benzodiazepine-related deaths increased from 2015 to 2017, particularly in combination with opioids and began to decline since 2018. [Figure 18]

Figure 18. Number of Unintentional Benzodiazepine-Related Deaths
Occurring in Maryland, 2012-2021

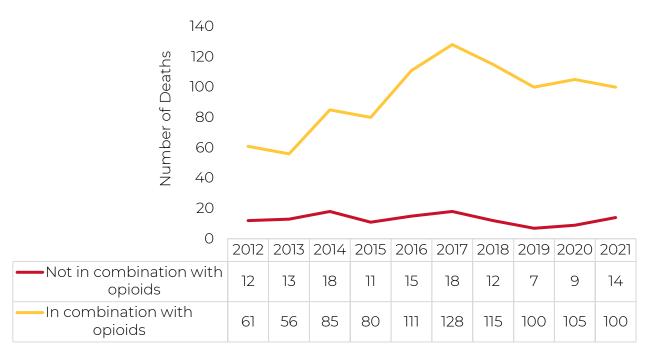
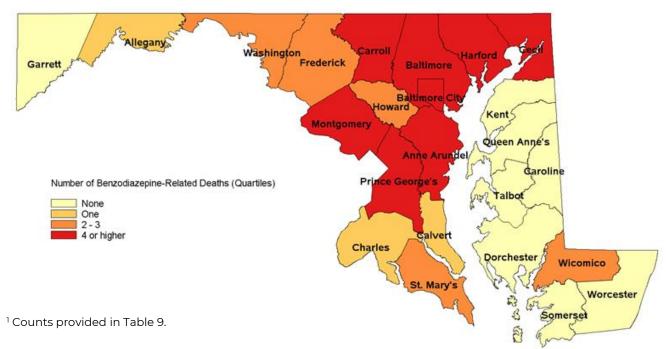


Figure 19. Number of Unintentional Benzodiazepine-Related Deaths by Place of Occurrence in Maryland, 2021¹

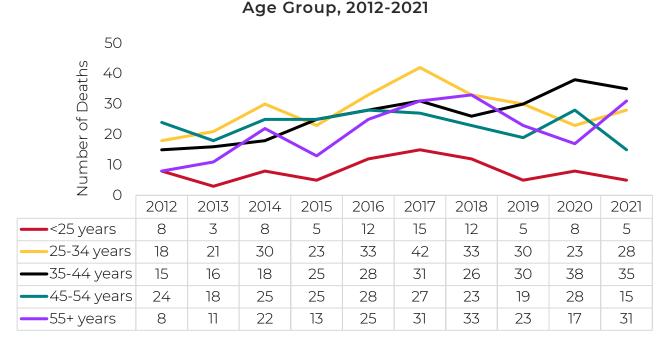


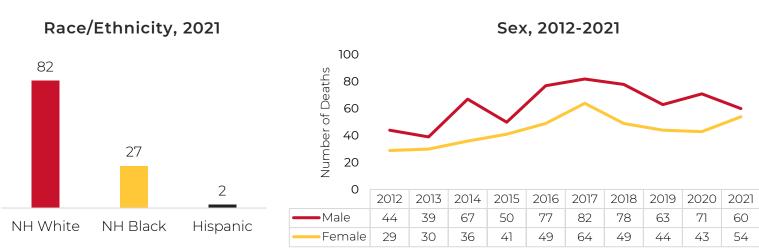
Population Characteristics: Benzodiazepine-Related Deaths

Those aged 35-44 years experienced the most benzodiazepine-related deaths in 2021. Benzodiazepine-related deaths decreased from 2020 to 2021 among those aged 45-54 years (46%) and increased among those 55 years and over (82%). Nearly 72% of benzodiazepine-related deaths in 2021 were among non-Hispanic white individuals and 24% occurred among non-Hispanic black individuals. The benzodiazepine-related death rate among non-Hispanic white individuals was nearly 2 times the rate among non-Hispanic black individuals [Table 15]. Men experienced the most benzodiazepine-related deaths in 2021 – 60 – a 15% decrease from 2020. Among women, there was a 25% increase in the number of deaths. The benzodiazepine-related death rate was similar for men (2.0) and women (1.7)

Figure 20. Number of Unintentional Benzodiazepine-Related Intoxication

Deaths Occurring in Maryland by:





PHENCYCLIDINE-RELATED DEATHS

The number of phencyclidine-related deaths decreased to 68 deaths in 2021, slightly down from the all-time high of 75 deaths in 2020. The number of phencyclidine-related deaths has increased over the last decade, particularly in combination with opioids. [Figure 21]

Figure 21. Number of Unintentional Phencyclidine-Related Deaths
Occurring in Maryland, 2012-2021

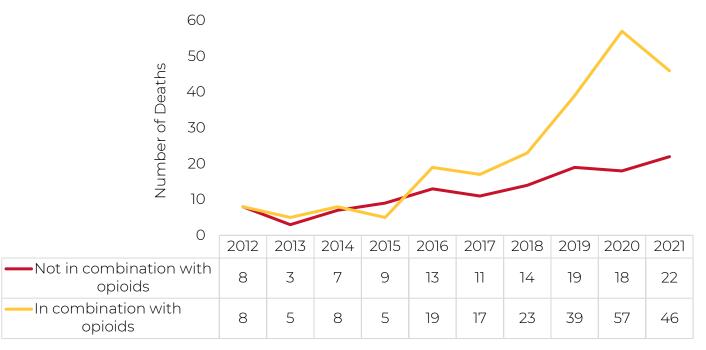
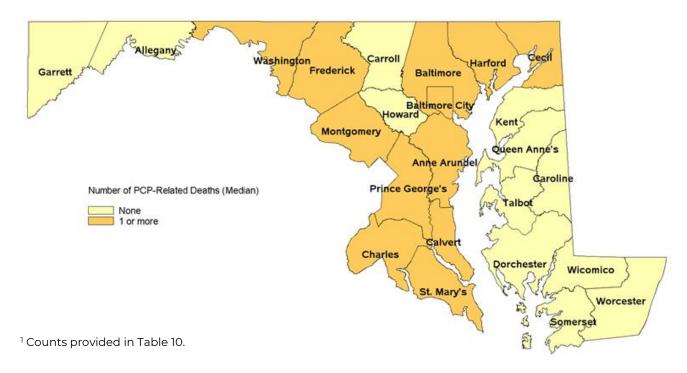


Figure 22. Number of Unintentional Phencyclidine-Related Deaths by Place of Occurrence in Maryland, 2021¹

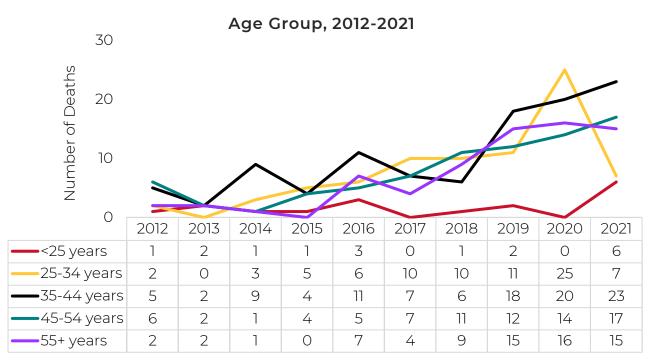


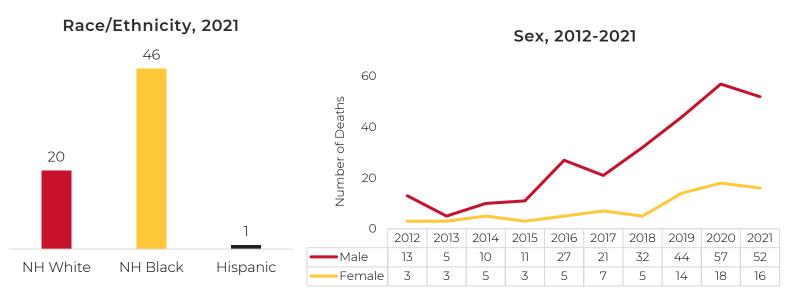
Population Characteristics: Phencyclidine-Related Deaths

Those aged 35-44 years experienced the most phencyclidine-related deaths in 2021. Phencyclidine-related deaths decreased between 2020 and 2021 among those aged 25-34 years and increased among those under 25 years. Nearly two-thirds of phencyclidine-related deaths in 2021 were among non-Hispanic black individuals and 30% occurred among non-Hispanic white individuals. The phencyclidine-related death rate among non-Hispanic black individuals was nearly 3.5 times the rate among non-Hispanic white individuals [Table 15]. Males continue to experience the highest numbers of phencyclidine-related deaths. [Figure 23]

Figure 23. Number of Unintentional Phencyclidine-Related Intoxication

Deaths Occurring in Maryland by:





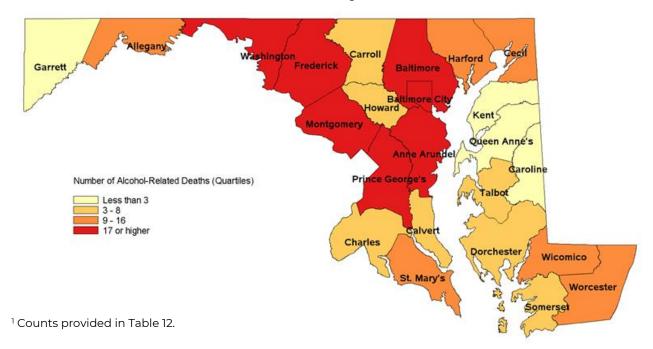
ALCOHOL-RELATED DEATHS

The number of alcohol-related deaths decreased about 9% in 2021 to 517 deaths and remains below the all-time high of 582 deaths in 2017. Particularly in combination with opioids, the number of alcohol-related deaths increased sharply from 2015 to 2016, then began to decline until another 24% increase from 2019 to 2020. Eighty percent of alcohol-related deaths in 2021 occurred in combination with any opioid. [Figure 24]



Figure 24. Number of Unintentional Alcohol-Related Deaths
Occurring in Maryland, 2012-2021

Figure 25. Number of Unintentional Alcohol-Related Deaths by Place of Occurrence in Maryland, 2021¹

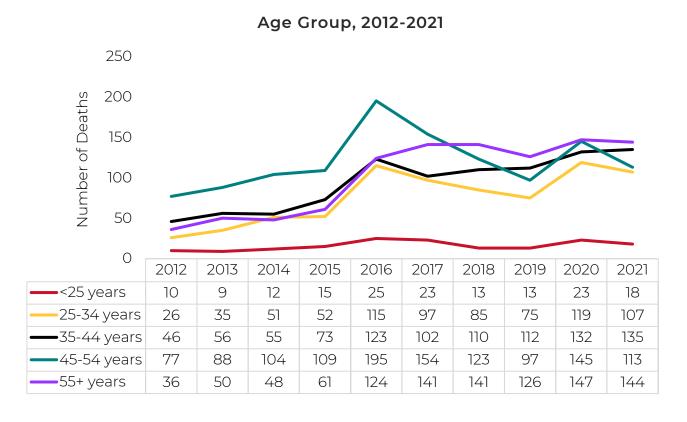


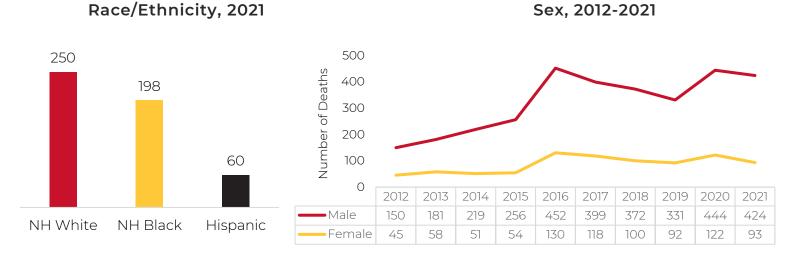
Population Characteristics: Alcohol-Related Deaths

Those aged 55 years and over experienced the most alcohol-related deaths in 2021, followed by the 35–44-year age group. Alcohol-related deaths decreased between 2020 and 2021 among those aged 45-54 years. Forty-eight percent of alcohol-related deaths in 2021 were among non-Hispanic white individuals, 38% occurred among non-Hispanic black individuals, and 11% among Hispanic individuals. In 2021, 8 out of 10 alcohol-related deaths were among males (424) compared to 93 deaths among females. [Figure 26]

Figure 26. Number of Unintentional Alcohol-Related Intoxication Deaths

Occurring in Maryland by:





DRUG COMBINATIONS

Figure 27. Combinations of Substances Related to Unintentional Drug- and Alcohol-Related Intoxications Deaths, Maryland, 2021

		Number	Percent
Fentanyl			
	Total	2,344	
	In combination		
	With cocaine	896	38.2
	With xylazine	572	24.4
	With heroin	331	14.1
	With alcohol	384	16.4
	With prescription opioids	308	13.1
	With methamphetamine	77	3.3
	With benzodiazepines	73	3.1
	With phencyclidine	45	1.9
Cocaine			
	Total	1,021	
	In combination		
	With fentanyl	896	87.8
	With xylazine	225	22.0
	With alcohol	167	16.4
	With heroin	124	12.1
	With prescription opioids	115	11.3
	With benzodiazepines	27	2.6
	With phencyclidine	27	2.6
	With methamphetamine	21	2.1
Heroin			
	Total	354	
	In combination		
	With fentanyl	331	93.5
	With cocaine	124	35.0
	With xylazine	123	34.7
	With prescription opioids	65	18.4
	With alcohol	45	12.7
	With methamphetamine	12	3.4
	With benzodiazepines	8	2.3
	With phencyclidine	6	1.7
Prescription opioids			
	Total	447	
	In combination		
	With fentanyl	308	68.9
	With cocaine	115	25.7
	With xylazine	91	20.3
	With heroin	65	14.5
	With alcohol	46	10.3
	With benzodiazepines	39	8.7
	With methamphetamine	12	2.7
	With phencyclidine	5	1.1

Figure 27. Combinations of Substances Related to Unintentional Drug- and Alcohol-Related Intoxications Deaths, Maryland, 2021 (Continued)

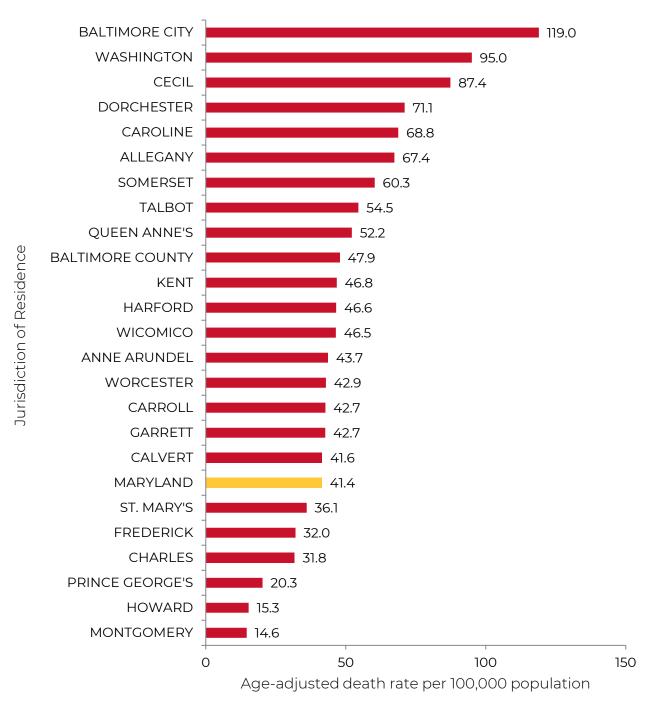
Total In combination With fentanyl With cocaine With xylazine With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination With fentanyl	517 384 167 63 46 45 25 12 8 114	74.3 32.3 12.1 8.9 8.7 4.8 2.3 1.5
In combination With fentanyl With cocaine With xylazine With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	384 167 63 46 45 25 12 8	32.3 12.1 8.9 8.7 4.8 2.3
With fentanyl With cocaine With xylazine With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	167 63 46 45 25 12 8	32.3 12.1 8.9 8.7 4.8 2.3
With cocaine With xylazine With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	167 63 46 45 25 12 8	32.3 12.1 8.9 8.7 4.8 2.3
With xylazine With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	63 46 45 25 12 8	12.1 8.9 8.7 4.8 2.3
With prescription opioids With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	46 45 25 12 8	8.9 8.7 4.8 2.3
With heroin With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	45 25 12 8	8.7 4.8 2.3
With benzodiazepines With phencyclidine With methamphetamine Benzodiazepines Total In combination	25 12 8 114	4.8 2.3
With phencyclidine With methamphetamine Benzodiazepines Total In combination	12 8 114	2.3
With methamphetamine Benzodiazepines Total In combination	8 114	_
Benzodiazepines Total In combination	114	1.5
Total In combination		
In combination		
	73	
\M/ith fentanyl	73	
		64.0
With prescription opioids	39	34.2
With cocaine	27	23.7
With alcohol	25	21.9
With xylazine	15	13.2
With heroin	8	7.0
With methamphetamine	1	0.9
With phencyclidine	1	0.9
Phencyclidine		
Total	68	
In combination		
With fentanyl	45	66.2
With cocaine	27	39.7
With alcohol	12	17.6
With heroin	6	8.8
With prescription opioids	5	7.4
With xylazine	5	7.4
With benzodiazepines	1	1.5
With methamphetamine	0	0.0
Methamphetamine	00	
Total In combination	99	
	77	77.0
With redains	77	77.8
With xylazine With cocaine	29 21	29.3 21.2
With heroin	12	
With neroin With prescription opioids	12 12	12.1 12.1
With alcohol	8	12.1 8.1
With benzodiazepines	8	8.1 1.0
With phencyclidine	0	0.0
With phencyclidine Xylazine	U	0.0
Total	575	
In combination	3,3	
With fentanyl	572	99.5
With cocaine	225	39.1
With heroin	123	21.4
With prescription opioids	91	15.8
With alcohol	63	11.0
With methamphetamine	29	5.0
With benzodiazepines	15	2.6
With phencyclidine	5	0.9

XYLAZINE

Xylazine, a nonopioid veterinary tranquilizer, was involved in 575 drug intoxication deaths in Maryland in 2021. In more than 99% of xylazinerelated deaths, xylazine was in combination with fentanyl. This is the first Annual Report in which this substance was included.

AGE-ADJUSTED MORTALITY RATES

Figure 28. Age-adjusted Mortality Rates¹ for Unintentional Drug- and Alcohol-Related Deaths by Place of Residence^{2,3}, Maryland, 2019-2021



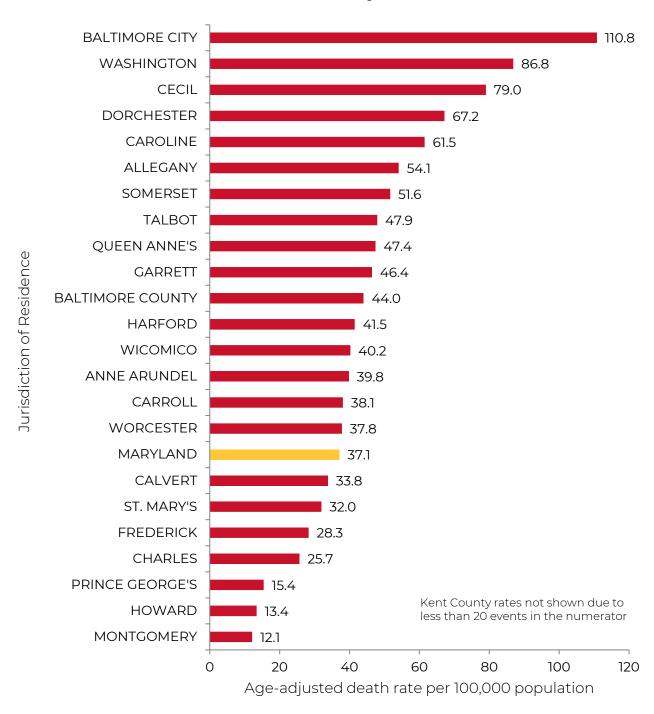
¹Age-adjusted to the 2000 U.S. standard population by the direct method.

²Rates are based on place of residence, not place of occurrence.

³Deaths identified by underlying cause of death ICD-10: X40-X45 and Y10-Y15

AGE-ADJUSTED MORTALITY RATES

Figure 29. Age-Adjusted Mortality Rates^{1,2} for Opioid-Related Deaths by Place of Residence^{3,4}, Maryland, 2019-2021



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 shown for jurisdictions with 20 or more intoxication deaths.

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

⁴Deaths identified by underlying cause of death ICD-10: X40-X45 and Y10-Y15 and drug category codes: T40.0-T40.4 and T40.6.

TABLE 1. TOTAL NUMBER OF UNINTENTIONAL DRUG- AND ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					TOTAL IN	FOXICATION	DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	799	858	1,041	1,259	2,089	2,282	2,406	2,379	2,799	2,800	18,712
NORTHWEST AREA	67 0 14 27 26	86 6 15 28 37	96 2 12 40 42	131 5 22 64 40	214 1 59 66 88	183 8 38 59 78	211 3 39 91 78	189 9 28 88 64	234 8 52 110 64	207 6 45 103 53	1,618 48 324 676 570
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	519 225 119 83 29 24 39	557 246 144 78 24 29 36	678 305 170 101 38 21 43	841 393 220 112 40 26 50	1,402 694 336 195 47 46 84	1,549 761 367 214 55 51	1,731 888 388 241 72 41 101	1,652 914 350 208 56 37 87	1,860 1,028 394 251 46 57 84	1,892 1,079 390 230 59 38 96	12,681 6,533 2,878 1,713 466 370 721
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	104 48 56	111 52 59	128 65 63	140 70 70	231 102 129	283 116 167	216 89 127	251 105 146	342 139 203	367 142 225	2,173 928 1,245
SOUTHERN AREA	37 12 13 12	25 6 9 10	47 17 21 9	59 20 22 17	88 28 45 15	103 32 37 34	86 28 27 31	95 31 31 33	111 25 53 33	101 25 35 41	752 224 293 235
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	72 25 0 2 4 5 5 21 3 7	79 26 4 8 2 7 5 17 4 6	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 19	162 59 2 17 7 10 7 36 8 16	192 62 10 13 12 14 11 41 10	252 92 6 14 17 17 17 47 16 26	233 87 10 15 10 13 22 47 10	1,488 501 52 99 83 96 86 330 72 169

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 UNINTENTIONAL OPIOID-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					OPIOID:	-RELATED D	EATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	648	729	888	1,089	1,856	2,009	2,143	2,106	2,518	2,507	16,493
NORTHWEST AREA	53	74	81	118	198	157	189	168	219	184	1,441
	0	4	2	4	0	4	3	6	5	6	34
	10	11	11	20	55	36	33	23	48	40	287
	20	26	34	57	63	51	83	80	105	94	613
	23	33	34	37	80	66	70	59	61	44	507
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	437	485	591	742	1,262	1,404	1,578	1,508	1,715	1,747	11,469
	189	212	275	354	628	692	814	851	964	1,008	5,987
	104	125	146	195	305	323	352	316	356	361	2,583
	68	67	85	89	169	198	218	183	226	209	1,512
	27	21	29	34	44	51	68	51	43	52	420
	17	26	18	25	40	47	36	34	52	32	327
	32	34	38	45	76	93	90	73	74	85	640
NATIONAL CAPITAL AREA	66	78	101	104	190	215	158	188	268	289	1,657
MONTGOMERY	36	40	53	59	84	91	64	86	109	121	743
PRINCE GEORGE'S	30	38	48	45	106	124	94	102	159	168	914
SOUTHERN AREA CALVERT CHARLES ST MARY'S	32	24	40	48	74	94	71	82	93	85	643
	11	5	16	19	25	27	25	25	19	17	189
	12	9	16	17	36	34	19	26	42	31	242
	9	10	8	12	13	33	27	31	32	37	212
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	60 22 0 2 4 3 5 17 2 5	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 8 10 28 3 15	147 58 2 16 7 10 6 30 8 10	160 53 10 11 11 13 10 29 9	223 85 6 13 15 13 15 39 13 24	202 76 7 14 8 12 20 40 9 16	1,283 452 43 88 74 84 77 273 60

 $^{^{1}}$ 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 UNINTENTIONAL HEROIN-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					HEROIN	-RELATED [DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	392	464	578	748	1,212	1,078	830	726	548	354	6,930
NORTHWEST AREA	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	44 1 14 20 9	18 1 4 9 4	579 11 117 228 223
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	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 43	505 279 111 63 18 10 24	364 205 74 45 13 15	240 128 54 29 6 4	4,800 2,465 1,096 627 189 144 279
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	42 22 20	53 28 25	65 33 32	69 37 32	115 48 67	104 52 52	78 34 44	81 39 42	76 32 44	49 15 34	732 340 392
SOUTHERN AREA	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	24 3 15 6	8 2 5 1	274 93 109 72
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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	51 16 1 1 2 3 1 13 3 11	72 19 1 4 6 4 3 21 3 11	85 37 1 5 4 3 4 20 2	81 40 0 8 3 4 3 12 5	52 16 3 3 5 4 5 9 1 6	40 12 2 4 4 1 2 8 1	39 10 1 0 2 0 10 11 3 2	545 187 11 39 37 27 34 126 22 62

 $[\]frac{1}{2}$ Includes deaths confirmed or suspected to be related to recent heroin use. $\frac{2}{2}$ Includes only deaths for which the manner of death was classified as accidental or undetermined.

TABLE 4. TOTAL NUMBER OF PRESCRIPTION UNINTENTIONAL OPIOID-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL				PRE	SCRIPTION	OPIOID-RE	LATED DEA	THS			
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	311	316	330	351	418	413	379	369	453	447	3,787
NORTHWEST AREA	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	38 1 8 18 11	32 0 4 20 8	365 9 71 161 124
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	196 74 47 33 17 5 20	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	325 168 71 40 16 11	323 164 69 45 18 7 20	2,594 1,179 647 359 149 82 178
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	29 18 11	30 16 14	35 19 16	36 23 13	42 26 16	33 19 14	27 16 11	28 15 13	37 16 21	30 20 10	327 188 139
SOUTHERN AREA	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	24 5 8 11	20 3 5 12	208 57 78 73
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	38 18 0 0 1 1 3 9 2 4	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	24 5 0 4 1 2 2 5 2 3	27 6 0 0 3 5 3 5 2 3	29 10 0 3 3 2 0 7 1 3	42 18 2 5 1 2 3 5 2 4	293 107 12 25 15 25 18 50 14

 $^{^1}$ 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 UNINTENTIONAL OXYCODONE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					OXYCODO	NE-RELATE	D DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	99	86	120	104	157	122	103	124	108	104	1,127
NORTHWEST AREA	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	15 1 5 2 7	14 0 3 7 4	147 3 32 56 56
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	51 15 12 11 6 2	44 11 14 9 3 4 3	69 20 22 10 4 4 9	56 18 16 12 3 4	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	59 21 14 14 5 3	53 13 15 16 4 3 2	613 186 174 136 43 30 44
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	11 8 3	13 7 6	17 11 6	16 8 8	25 16 9	13 8 5	7 4 3	15 6 9	14 7 7	18 12 6	149 87 62
SOUTHERN AREACALVERTCHARLESST MARY'S	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	13 4 3 6	9 2 1 6	115 35 41 39
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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 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 0 2 1 0 0	6 0 0 1 1 1 0 1 2 1	11 2 0 0 2 2 1 3 1	7 2 0 1 2 0 0 0 0 1 1	10 4 1 0 0 0 2 2 0	103 31 3 7 8 8 8 21 6

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

TABLE 6: TOTAL NUMBER OF UNINTENTIONAL METHADONE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					METHADO	NE-RELATE	D DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	170	138	152	183	197	246	196	201	279	284	2,046
NORTHWEST AREA	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	17 0 1 14 2	10 0 0 8 2	130 2 19 70 39
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	122 54 28 15 12 1	110 57 29 6 7 5 6	112 54 31 14 5 2	145 78 34 9 9 5	158 82 36 21 9 2	198 87 63 23 6 8	155 85 37 12 6 1	166 98 36 12 8 6	226 131 46 21 9 3 16	235 136 49 23 12 2	1,627 862 389 156 83 35
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	13 7 6	7 3 4	6 5 1	9 6 3	13 7 6	14 6 8	7 4 3	6 4 2	13 5 8	8 5 3	96 52 44
SOUTHERN AREA CALVERT CHARLES ST MARY'S	5 2 1 2	2 0 1 1	7 2 4 1	6 3 2 1	6 2 2 2	9 3 3 3	7 4 2 1	6 0 2 4	11 1 4 6	7 0 1 6	66 17 22 27
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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	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	12 6 0 0 0 1 0 3 0 2	24 11 1 4 1 0 2 2 2	127 54 7 12 7 12 6 13 5

 $[\]frac{1}{2}$ 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 UNINTENTIONAL FENTANYL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					FENTANY	L-RELATED	DEATHS				_
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	29	58	186	340	1,119	1,594	1,888	1,927	2,342	2,344	11,827
NORTHWEST AREA	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	200 5 44 95 56	172 6 38 87 41	962 22 196 412 332
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	16 4 5 3 1 2	35 12 11 6 2 3	142 72 36 23 4 5	248 120 65 29 11 7 16	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	1,605 920 328 209 37 44 67	1,639 973 330 193 39 28 76	8,405 4,661 1,794 1,061 256 214 419
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	3 2 1	6 0 6	15 8 7	32 17 15	101 43 58	175 72 103	115 40 75	167 76 91	251 102 149	274 112 162	1,139 472 667
SOUTHERN AREACALVERTCHARLESST MARY'S	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	79 16 37 26	76 16 29 31	418 118 156 144
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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	145 49 10 10 9 11 9 26 9	207 81 6 12 14 11 15 34 12 22	183 71 5 11 7 11 18 37 9	903 314 30 60 47 58 59 192 50 93

 $^{^1}$ 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 UNINTENTIONAL COCAINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					COCAINE	E-RELATED	DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	153	154	198	221	464	691	891	869	921	1,021	5,583
NORTHWEST AREA	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	65 1 10 31 23	68 1 12 40 15	379 7 73 172 127
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	108 59 17 13 7 7	102 47 27 12 7 5	138 82 28 19 2 3 4	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	666 393 135 89 8 16 25	749 453 150 82 19 8	4,140 2,382 868 494 118 96 182
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	22 12 10	25 13 12	29 10 19	16 5 11	44 11 33	62 17 45	49 18 31	74 29 45	86 26 60	117 36 81	524 177 347
SOUTHERN AREA	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	33 8 16 9	28 6 8 14	176 36 66 74
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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	71 13 2 4 2 5 6 21 7	59 12 3 4 0 2 5 22 5 6	364 83 13 22 14 24 28 115 26 39

 $[\]frac{1}{2}$ Includes deaths confirmed or suspected to be related to recent use of cocaine. $\frac{2}{2}$ Includes only deaths for which the manner of death was classified as accidental or undetermined.

TABLE 9: TOTAL NUMBER OF UNINTENTIONAL BENZODIAZEPINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL				В	ENZODIAZE	PINE-RELA	TED DEATH	S			
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	73	69	103	91	126	146	127	107	114	114	1,070
NORTHWEST AREA	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	15 2 3 4 6	6 0 1 3 2	112 7 22 34 49
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	49 15 12 11 1 2 8	44 14 16 3 3 5 3	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	69 26 21 10 2 4 6	80 33 21 10 10 2 4	694 232 215 117 35 34 61
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	6 4 2	7 4 3	12 10 2	8 7 1	12 7 5	15 8 7	15 9 6	17 10 7	17 8 9	18 12 6	127 79 48
SOUTHERN AREA CALVERT CHARLES ST MARY'S	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	6 0 3 3	4 1 1 2	57 12 25 20
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	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 1	6 1 2 0 1 1 0 0 0 1	8 2 0 3 0 0 0 1 0 2	10 4 0 0 1 1 1 1 0 2	7 2 0 1 2 0 0 2 0 0	6 4 0 0 0 0 0 0 2 0	80 33 3 6 4 7 4 10 2

 $^{^1}$ 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 UNINTENTIONAL PHENCYCLIDINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, **2012-2021.**^{1,2} MARYLAND,

REGION AND POLITICAL				F	PHENCYCLI	DINE-RELAT	ED DEATHS	3			
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	16	8	15	14	32	28	37	58	75	68	351
NORTHWEST AREA	1 0 0 0 1	0 0 0 0	1 0 0 0 1	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	5 0 0 2 3	6 0 0 3 3	27 0 0 7 20
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	7 2 1 2 1 1 0	4 1 1 1 0 1	3 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	19 5 2 10 0 1	11 2 2 6 0 0	97 27 11 48 1 8 2
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	6 1 5	3 0 3	10 1 9	8 1 7	13 2 11	16 2 14	20 4 16	25 2 23	41 10 31	38 6 32	180 29 151
SOUTHERN AREACALVERTCHARLESST MARY'S	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	8 3 4 1	12 3 8 1	41 12 26 3
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 1 0	1 0 0 0 0 0 0 0 0 1 0 0	000000000000000000000000000000000000000	1 1 0 0 0 0 0 0 0	2 0 0 0 0 1 0 1 0	1 1 0 0 0 0 0 0 0 0 0	6 2 0 0 0 1 0 3 0

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

TABLE 11: TOTAL NUMBER OF UNINTENTIONAL METHAMPHETAMINE-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL		METHAMPHETAMINE-RELATED DEATHS									
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	2	6	3	10	18	28	32	41	76	99	315
NORTHWEST AREA	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	7 3 1 2 1	20 3 5 10 2	54 10 12 25 7
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	1 1 0 0 0 0	3 2 1 0 0 0	1 1 0 0 0 0	4 1 0 0 1 2	12 8 1 0 0 2	12 5 1 2 1 1 2	13 5 4 2 1 1 0	13 7 4 2 0 0	28 13 7 1 2 1 4	33 16 7 3 1 1 5	120 59 25 10 6 8 12
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	0 0 0	2 0 2	0 0 0	4 0 4	3 1 2	4 2 2	4 1 3	6 3 3	9 2 7	12 7 5	44 16 28
SOUTHERN AREA	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	2 0 2 0	0 0 0 0	9 3 6 0
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0	2 0 0 0 1 0 1 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	4 4 0 0 0 0 0 0 0 0 0 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 0	30 26 0 1 1 0 0 0 0	34 28 1 1 0 1 0 3 0	88 72 2 2 3 1 0 5 0 3

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

TABLE 12: TOTAL NUMBER OF UNINTENTIONAL ALCOHOL-RELATED INTOXICATION DEATHS BY PLACE OF OCCURRENCE, MARYLAND, 2012-2021.^{1,2}

REGION AND POLITICAL					ALCOHO	RELATED	DEATHS				
SUBDIVISION	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	TOTAL
MARYLAND	195	239	270	310	582	517	472	423	566	517	4,091
NORTHWEST AREA	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	37 2 3 20 12	37 1 7 17 12	56 0 15 24 17	332 11 65 137 119
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	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	343 169 91 49 7 11	286 158 56 45 8 7	2,639 1,456 579 347 75 71
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	38 15 23	35 13 22	36 18 18	32 15 17	67 22 45	86 35 51	51 19 32	58 19 39	102 43 59	101 37 64	606 236 370
SOUTHERN AREA	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	28 10 14 4	22 6 7 9	168 51 70 47
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	12 6 0 0 0 2 1 2 1	22 9 1 1 1 2 0 6 1	29 5 1 7 2 0 0 7 2 5	22 8 0 0 0 0 1 3 2 8	43 8 1 2 5 0 1 1 12 3 11	42 12 1 4 4 5 2 9 1	31 10 0 3 1 4 1 8 0	37 5 1 1 2 5 5 12 1 5	56 16 2 1 3 6 5 8 4 11	52 13 2 2 2 3 3 12 5 10	346 92 9 21 20 27 19 79 20

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

TABLE 13. TOTAL NUMBER OF UNINTENTIONAL DRUG- AND ALCOHOL-RELATED INTOXICATION DEATHS BY RACE AND HISPANIC ORIGIN, SEX, AND PLACE OF OCCURRENCE, MARYLAND, 2021.^{1,2}

DECION AND DOLUTION		TC	OTAL INTOXICATION	ON DEATH COUNT	rs	
REGION AND POLITICAL SUBDIVISION	TOTAL	NON-HISPANIC WHITE	NON-HISPANIC BLACK	HISPANIC*	MALE	FEMALE
MARYLAND	2,800	1,427	1,198	124	2,031	769
NORTHWEST AREA	207 6 45 103 53	154 6 36 70 42	45 0 7 29 9	6 0 2 4 0	150 6 33 73 38	57 0 12 30 15
BALTIMORE METRO AREA	1,892 1,079 390 230 59 38 96	906 305 275 171 55 26 74	892 728 90 44 3 8	60 33 10 13 1 2	1,365 781 278 165 39 31	527 298 112 65 20 7 25
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	367 142 225	107 74 33	199 38 161	50 21 29	286 104 182	81 38 43
SOUTHERN AREACALVERTCHARLESST MARY'S	101 25 35 41	73 22 23 28	24 2 12 10	3 0 0 3	62 13 24 25	39 12 11 16
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	233 87 10 15 10 13 22 47 10	187 79 8 12 8 10 14 31 8	38 6 2 3 0 3 8 14 2	5 1 0 0 1 0 0 1 0 0 2	168 62 6 12 10 11 14 32 6	65 25 4 3 0 2 8 15 4

¹ Includes deaths that occurred in Maryland 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.

Includes only deaths that occurred in Maryland for which the manner of death was classified as accidental or undetermined.

^{*}Includes all persons of Hispanic origin of any race.

TABLE 13A. CRUDE DEATH RATES FOR UNINTENTIONAL DRUG AND ALCOHOL-RELATED INTOXICATION DEATHS BY RACE AND HISPANIC ORIGIN, SEX AND PLACE OF OCCURRENCE, MARYLAND, 2021.^{1,2,3}

DECION AND DOUTION		Т	OTAL INTOXICAT	ION DEATH RATE	S	
REGION AND POLITICAL SUBDIVISION	TOTAL	NON-HISPANIC WHITE	NON-HISPANIC BLACK	HISPANIC*	MALE	FEMALE
MARYLAND	45.4	47.2	64.3	18.1	67.6	24.3
NORTHWEST AREAGARRETT	39.0	38.8	81.2	** **	56.0	21.6
ALLEGANY	66.4	61.8	**	**	92.7	**
WASHINGTON	66.5	59.6	149.7	**	92.0	39.7
FREDERICK	18.9	21.7			27.4	
BALTIMORE METRO AREA	67.9	59.9	107.2	32.1	101.2	36.6
BALTIMORE CITY	187.2	192.0	205.9	94.8	288.6	97.4
BALTIMORE COUNTY	45.9	59.8	34.8	**	68.8	25.1
ANNE ARUNDEL	39.0	44.5	40.9	**	56.2	21.9
CARROLL	33.9	36.2	**	**	45.0	22.9
HOWARD	11.4	16.0	**	**	18.8	40.7
HARFORD	36.5	38.0			54.8	18.7
NATIONAL CAPITAL AREA	18.3	19.2	25.4	12.3	29.3	7.8
MONTGOMERY	13.5	16.6	19.1	9.9	20.3	7.0
PRINCE GEORGE'S	23.6	29.1	27.5	14.9	39.5	8.7
SOUTHERN AREA	26.8	34.1	20.9	**	33.3	20.4
CALVERT	26.6	30.7	**	**	**	**
CHARLES	20.7	39.3	**	**	29.4	**
ST MARY'S	35.8	33.5	**	**	43.5	**
EASTERN SHORE AREA	50.7	55.2	50.3	**	74.7	27.8
CECIL	83.7	90.8	**	**	119.6	48.0
KENT	**	**	**	**	**	**
QUEEN ANNE'S	**	**	**	**	**	**
CAROLINE	**	**	**	**	**	**
TALBOT	**	**	**	**	**	**
DORCHESTER	67.7	**	**	**	**	**
WICOMICO	45.2	48.7	**	**	64.8	**
SOMERSET	**	**	**	**	**	**
WORCESTER	**	**	**	**	**	**

¹ Includes deaths that occurred in Maryland 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 that occurred in Maryland for which the manner of death was classified as accidental or undetermined.

³ Crude rate per 100,000 population. Calculation of crude rates includes resident and non-resident data in the numerator and 2021 resident population estimates from the U.S. Census in the denominator. This may result in less accurate rates compared to resident only data. Further, these rates are not comparable with rates from other jurisdictions outside of Maryland as these rates are based on data from the literal text in the cause of death field on the death certificate rather than standardized ICD-10 codes.

^{*}Includes all persons of Hispanic origin of any race.

^{**}Rates based on <20 events in the numerator are not presented since such rates are subject to instability.

TABLE 14. TOTAL NUMBER OF UNINTENTIONAL DRUG- AND ALCOHOL-RELATED INTOXICATION DEATHS BY AGE GROUP AND PLACE OF OCCURRENCE, MARYLAND, **2021.**^{1,2}

DECION AND DOLLTION		TOTAL INTO	OXICATION DEAT	H COUNTS	
REGION AND POLITICAL SUBDIVISION	LESS THAN 25 YEARS	25-34 YEARS	35-44 YEARS	45-54 YEARS	55 YEARS OR MORE
MARYLAND	131	555	620	632	861
NORTHWEST AREA	17 2 3 8 4	46 1 10 22 13	58 2 11 27 18	48 1 11 27 9	38 0 10 19 9
BALTIMORE METRO AREA BALTIMORE CITY BALTIMORE COUNTY ANNE ARUNDEL CARROLL HOWARD HARFORD	69 28 11 13 2 7 8	334 161 78 50 14 5 26	390 188 91 65 14 13	437 233 104 53 16 7 24	661 468 106 49 13 6
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	32 17 15	91 43 48	94 42 52	63 20 43	87 20 67
SOUTHERN AREACALVERTCHARLESST MARY'S	6 4 2 0	30 8 8 14	19 3 5 11	29 5 14 10	17 5 6 6
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	7 2 2 1 0 0 0 0 1 1	54 20 2 3 6 1 5 13 2	59 18 2 3 2 3 9 12 4	55 23 2 3 2 5 3 12 2	58 24 2 5 0 4 5 10 1

¹ Includes deaths that occurred in Maryland 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 that occurred in Maryland for which the manner of death was classified as accidental or undetermined.

TABLE 14A. CRUDE DEATH RATES FOR UNINTENTIONAL DRUG- AND ALCOHOL-RELATED INTOXICATION DEATHS BY AGE GROUP AND PLACE OF OCCURRENCE, MARYLAND, 2021. 1,2,3

		TOTAL IN	TOXICATION DEA	TH RATES	
REGION AND POLITICAL SUBDIVISION	LESS THAN 25 YEARS	25-34 YEARS	35-44 YEARS	45-54 YEARS	55 YEARS OR MORE
MARYLAND	6.9	67.5	74.9	80.7	46.8
NORTHWEST AREA	** ** ** **	68.5 ** ** 109.6 **	81.6 ** ** 136.6	69.5 ** ** 132.9 **	23.4
BALTIMORE METRO AREA	8.1 16.4 ** ** ** **	85.4 152.4 69.8 61.2 ** 79.8	103.3 237.0 83.7 77.9 **	128.1 375.7 101.5 71.7 ** ** 71.2	79.8 294.3 39.7 28.8 **
NATIONAL CAPITAL AREA MONTGOMERY PRINCE GEORGE'S	5.2 **	34.8 33.7 35.8	33.9 28.5 40.0	23.5 14.0 34.2	15.0 6.4 25.1
SOUTHERN AREA CALVERT CHARLES ST MARY'S	** ** **	61.8	** ** **	57.4 ** ** **	** ** **
EASTERN SHORE AREA CECIL KENT QUEEN ANNE'S CAROLINE TALBOT DORCHESTER WICOMICO SOMERSET WORCESTER	**	101.0 151.3 ** ** ** ** ** ** **	114.5 ** ** ** ** ** ** **	101.3 169.0 ** ** ** ** ** ** **	36.0 72.3 ** ** ** ** ** ** **

¹ Includes deaths that occurred in Maryland 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 that occurred in Maryland for which the manner of death was classified as accidental or undetermined.

³ Crude rate per 100,000 population. Calculation of crude rates includes resident and non-resident data in the numerator and 2021 resident population estimates from the U.S. Census in the denominator. This may result in less accurate rates compared to resident only data. Further, these rates are not comparable with rates from other jurisdictions outside of Maryland as these rates are based on data from the literal text in the cause of death field on the death certificate rather than standardized ICD-10 codes.

^{***}Rates based on <20 events in the numerator are not presented since such rates are subject to instability.

TABLE 15. AGE-SPECIFIC CRUDE DEATH RATES FOR SELECTED UNINTENTIONAL DRUG- AND ALCOHOL-RELATED INTOXICATION DEATHS BY RACE/ ETHNICITY AND SEX, MARYLAND, 2021 1,2

SUBSTANCE	ALL AGES	< 25 YEARS	25-34 YEARS	35-44 YEARS	45-54 YEARS	55+ YEARS
ALL DRUG- AND ALCOHOL-RELATED DEATHS	,	20 . 2		23210	13 0 1 1 2 1 1 10	
TOTAL	45.4	6.9	67.5	74.9	80.7	46.8
MALE	67.6	9.8	100.4	111.4	120.5	72.8
FEMALE	24.3	4.0	35.1	39.7	43.0	24.8
NON-HISPANIC WHITE	47.2	7.9	92.2	96.9	85.4	30.0
NON-HISPANIC BLACK	64.3	7.5	58.4	75.1	117.1	102.1
HISPANIC	18.1	*	46.3	39.6	*	*
OPIOID-RELATED DEATHS	10.1		40.0	00.0		
TOTAL	40.7	6.4	63.2	67.1	70.1	41.4
MALE	60.5		94.5	98.6	105.3	64.3
FEMALE	21.8	3.8	32.2	36.6	36.8	22.0
NON-HISPANIC WHITE	42.6	7.1	86.6	92.2	74.8	25.1
NON-HISPANIC BLACK	58.0	7.2	53.6	63.2	103.2	94.4
HISPANIC	14.0	*	44.1	27.0	*	*
COCAINE-RELATED DEATHS	11.0			27.0		
TOTAL	16.6	1.6	23.0	28.6	32.0	17.0
MALE	25.3	2.2	25.0 35.3	43.3	50.1	26.9
FEMALE	8.3	Z.Z *	10.9	14.5	14.9	8.6
NON-HISPANIC WHITE	16.2	*	30.0	37.9	31.3	9.4
NON-HISPANIC WHITE	25.4	*	22.8	26.9	51.8	
	5.7	*	22.0 *	20.9	31.0	40.8
HISPANIC	5.7					
HEROIN-RELATED DEATHS						
TOTAL	5.7	*	8.2	8.8	9.8	6.6
MALE	8.8	*	11.8	13.8	16.0	10.2
FEMALE	2.8	*	*	*	*	3.5
NON-HISPANIC WHITE	6.1	*	12.1	12.2	10.3	4.2
NON-HISPANIC BLACK	7.9	*	*	7.9	14.7	14.2
HISPANIC	*	*	*	*	*	*
BENZODIAZAPINE-RELATED DEATHS						
TOTAL	1.8	*	3.4	4.2	*	1.7
MALE	2.0	*	*	4.9	*	*
FEMALE	1.7	*	*	*	*	*
NON-HISPANIC WHITE	2.7	*	*	6.9	*	2.2
NON-HISPANIC BLACK	1.4	*	*	*	*	*
HISPANIC	*	*	*	*	*	*
PHENCYCLIDINE-RELATED DEATHS						
TOTAL	1.1	*	*	2.8	*	*
MALE	1.7	*	*	*	*	*
FEMALE	*	*	*	*	*	*
NON-HISPANIC WHITE	0.7	*	*	*	*	*
NON-HISPANIC BLACK	2.5	*	*	*	*	*
HISPANIC	*	*	*	*	*	*
METHAMPHETAMINE-RELATED DEATHS						
TOTAL	1.6	*	3.7	3.1	3.3	*
MALE	2.6	*	5.4	5.4	*	*
FEMALE	0.7	*	*	*	*	*
NON-HISPANIC WHITE	2.4	*	5.6	*	5.3	*
NON-HISPANIC WHITE	1.1	*	3.0	*	3.3	*
HISPANIC	*	*	*	*	*	*
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¹ Includes only deaths that occurred in Maryland for which the manner of death was classified as accidental or undetermined.

² Crude rate per 100,000 population. Calculation of crude rates includes resident and non-resident data in the numerator and 2021 Maryland resident population estimates from the U.S. Census in the denominator.

^{*} Rates based on <20 events in the numerator are not presented since such rates are subject to instability.