

VIRGINIA DEPARTMENT OF HEALTH OFFICE OF THE CHIEF MEDICAL EXAMINER

"To promote and protect the health of all Virginians"

Fatal Drug Overdose Quarterly Report 4TH QUARTER 2023

Edition 2023.4

Publication Date: April 2024



METHODS, CONSIDERATIONS, AND LIMITATIONS

This quarterly report contains the most recent number of drug related deaths in Virginia for the previous quarter. <u>The numbers represented in this report are preliminary, subject to</u> <u>change, and are most likely slightly under reported at the time of publication</u> due to operational practices and limitations (specifically case turnaround time for reports) within the agency; therefore updates and/or changes to numbers previously published in past reports should be expected. It is highly recommended that when citing these data and reports, the edition number is included.

Data analyzed in the report is obtained from the Virginia Medical Examiner Database System (VMEDS). VMEDS is an internal agency database which contains detailed information on all deaths reported to the OCME. Data presented in this report is based upon accepted cases of either full autopsy or external exams. All manners of fatal drug overdoses (accident, homicide, suicide, and undetermined) are included in this report.

Due to the nature of law enforcement and OCME death investigation, all deaths presented in this report are based upon locality of occurrence and not residential status of the decedent. The numbers and rates of these death by locality of injury and drug name/drug category are available in separate documents (http://www.vdh.virginia.gov/medical-examiner/forensic-epidemiology/).

This report compiles data on drugs causing or contributing to death in fatal drug overdose cases. This report does not include data on drugs detected, but not contributing or causing death. <u>Often, drug-related deaths have more than one drug causing or contributing to death. Therefore, deaths in which multiple categories of drugs caused or contributed to death will be represented once within each drug category, but multiple times within the entire report. Example: a fatal cocaine, heroin, and alprazolam overdose death will be counted in the cocaine summary, the heroin summary, and the benzodiazepine summary.</u>

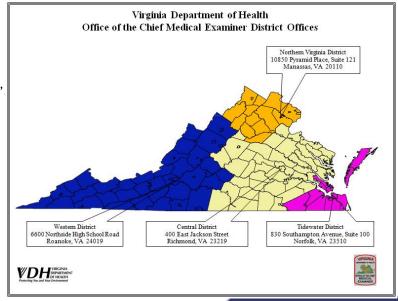
Prescription Opioids analyzed in this report include buprenorphine, codeine, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, pentazocine, propoxyphene, tapentadol, and tramadol and are included in the category of 'Prescription Opioids'. Benzodiazepines analyzed in this report include adinazolam, alprazolam, bromazolam, clonazepam, clonazolam, deschloroetizolam, diazepam, etizolam, flualprazolam, flubromazolam, flubromazepam, flurazepam, lorazepam, meclonazepam, midazolam, nordiazepam, oxazepam, phenazepam, temazepam, and triazolam and are included in the category of 'Benzodiazepines'

Projected estimates are calculated based upon initial counts by quarter, average toxicology turnaround time at the time of the report, the date of data analysis, and previous quarter fatality trend review.

Rate calculations are based upon Virginia population estimates. From 2007 to 2020, Bridged-Race Population Estimates from the National Center for Health Statistics were used for rate calculations; however, these estimates were discontinued in 2020. From 2021 forward, rates were calculated using Single-Race Population Estimates from the the US Census.

Quarters are based upon calendar year and are defined as follows:

- Quarter 1 (Q1)- January 1st March 31st
- Quarter 2 (Q2)- April 1st June 30th
- Quarter 3 (Q3)- July 1st September 31st
- Quarter 4 (Q4)- October 1st December 31st





MAIN TAKEAWAYS

- Fatal drug overdose has been the leading method of unnatural death in Virginia since 2013
- Opioids, specifically illicit fentanyl, have been the driving force behind the large increases in fatal overdoses since 2013
- In 2015 statewide, the number of illicit opioids deaths surpassed prescription (Rx) opioid deaths. This trend continued at a greater magnitude in 2016 to present
- From 2007-2021, there wasn't a substantial increase or decrease in fatal prescription (Rx) opioid overdoses; however, in 2022, there was a large drop in Rx opioid overdoses compared to the past 15-year span
- Preliminary numbers for 2023 indicated that fentanyl (prescription, illicit, and/or analogs) caused or contributed to death in 76.4% of all fatal overdoses in 2023
- In 2023, the most common combination of substances causing fatal overdoses was cocaine and fentanyl, representing 34.2% of all overdose deaths



Data for 2023 is Not Final

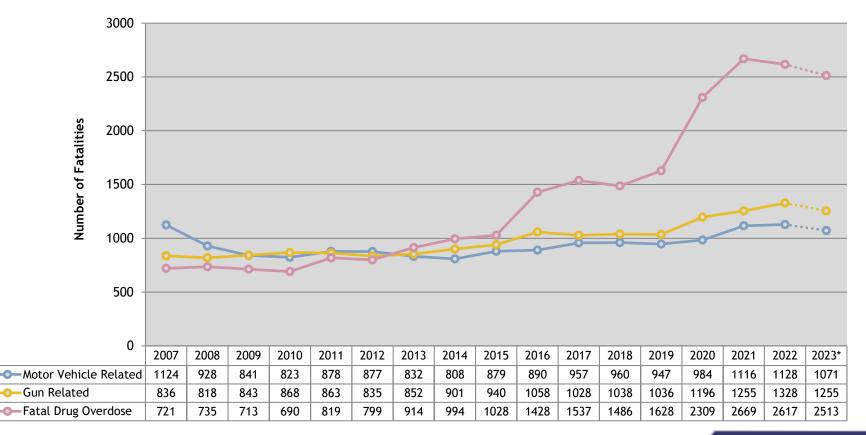
At the time of this analysis, approximately 130 cases from 2023 remained open, awaiting additional reports to certify cause and manner of death. These remaining cases may or may not be fatal drug overdoses and are not represented in this analysis. Therefore, 2023 numbers presented in this report are preliminary and subject to change.



TOP 3 METHODS OF UNNATURAL DEATH

The leading methods of unnatural death in Virginia since 2007 have been motor vehicle collisions, gun-related deaths, and fatal drug overdoses (these methods of death include all manners of death: accident, homicide, suicide, and undetermined). In 2013, fatal drug overdose became the leading method of unnatural death in the Commonwealth. This trend has continued to worsen at a greater magnitude due mainly to illicit opioids (heroin, illicit fentanyl, and fentanyl analogs).



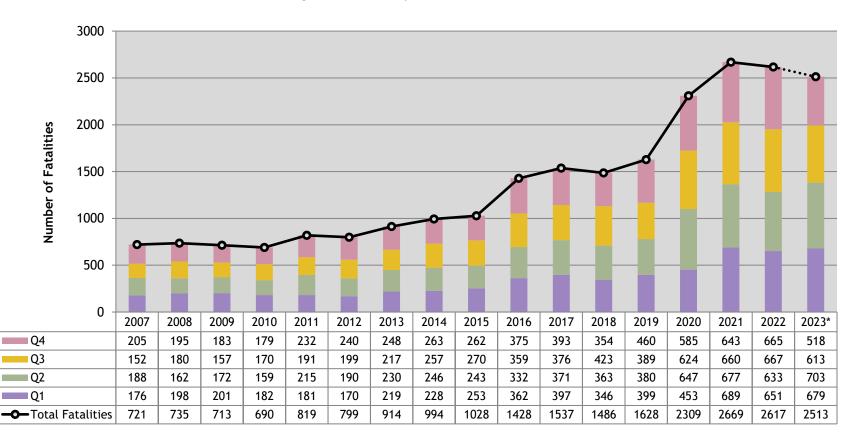


¹ Top 3 methods of death (motor vehicles, guns, and drugs) include all manners of death (accident, homicide, suicide, and undetermined)



ALL DRUGS

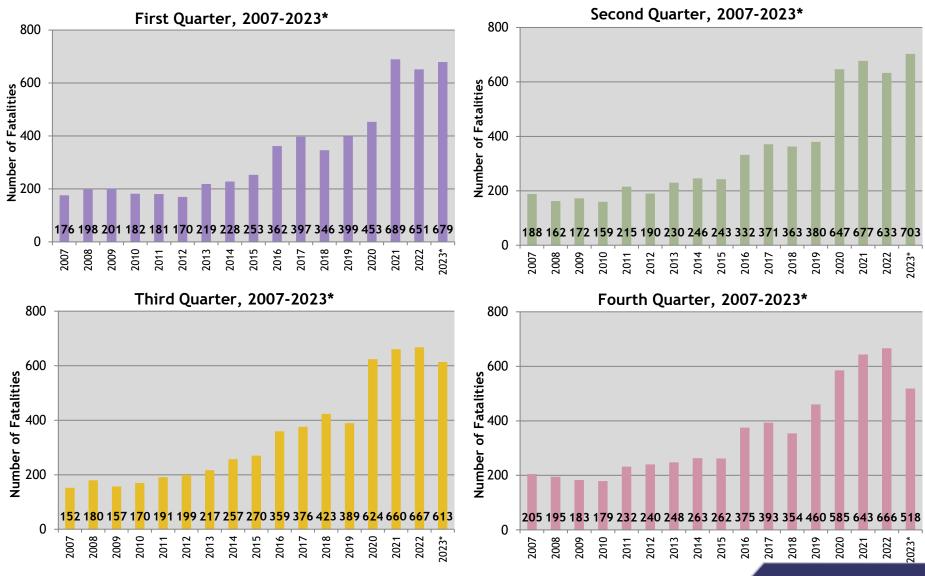
The total number of fatal drug overdoses statewide has increased each year. In 2013, fatal drug overdose became the number one method of unnatural death in the Commonwealth, surpassing both motor vehicle-related fatalities and gunrelated fatalities. In 2014, fatal drug overdose became the leading cause of accidental death in Virginia. The preliminary number of fatal overdoses, all substance, decreased by 4.0% in 2023 when compared to 2022.



Total Number of Fatal Drug Overdoses by Quarter and Year of Death, 2007-2023*

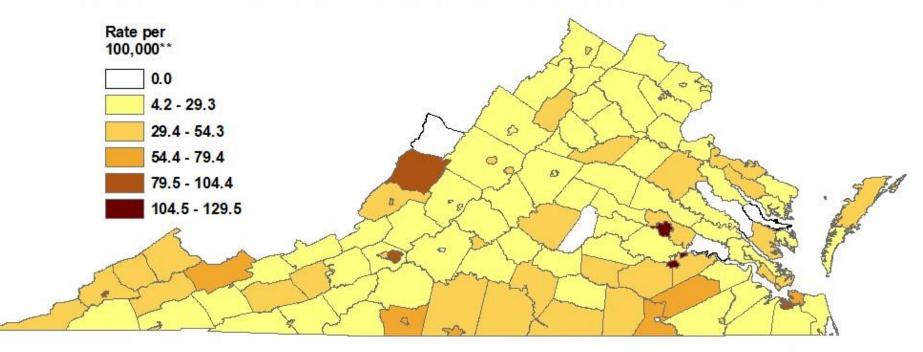


ALL DRUGS



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Rate of All Fatal Drug Overdoses, Any Substance, by Locality of Overdose, 2023*



Source: Virginia Department of Health, Office of the Chief Medical Examiner

* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



FATAL DRUG OVERDOSES BY NAME/CATEGORY



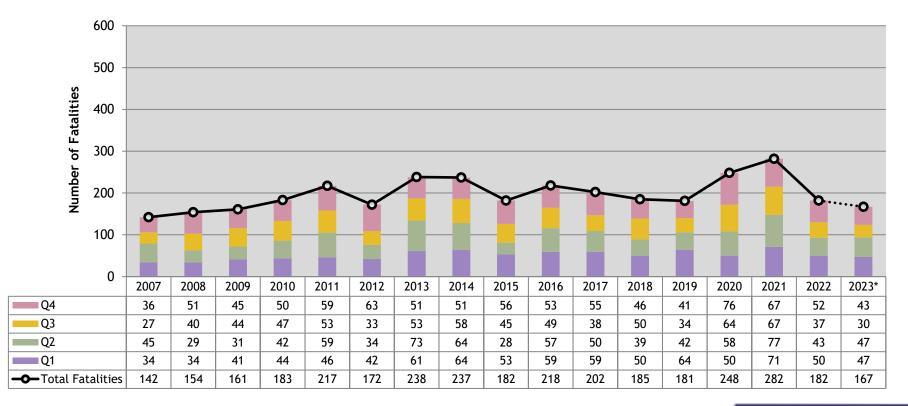
- Benzodiazepines
- Cocaine
- Fentanyl
- Heroin
- Prescription Opioids (Excluding Fentanyl)



BENZODIAZEPINES

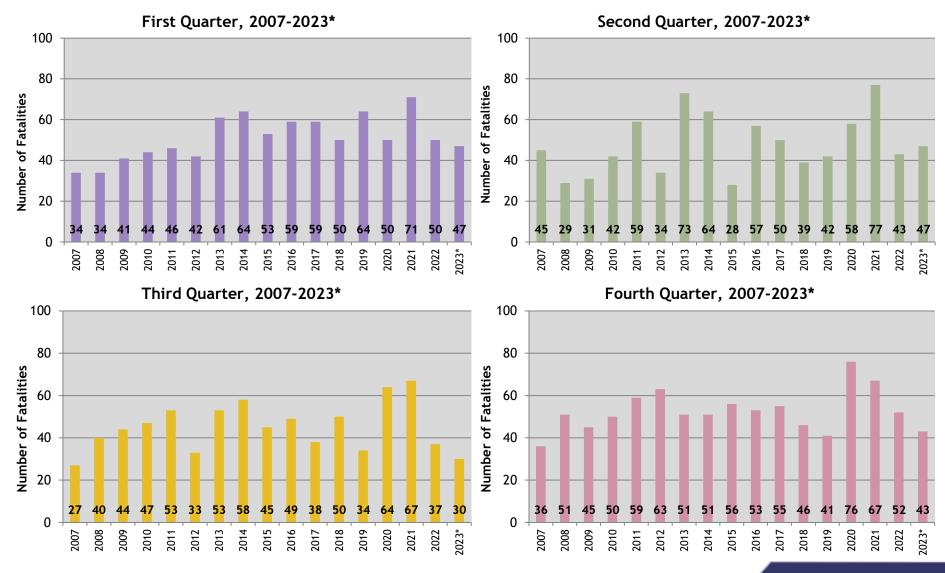
The number of fatal benzodiazepine-related overdoses has fluctuated each year. It is very uncommon for a decedent to fatally overdose on one or more benzodiazepines alone. However, when a person ingests other substances (e.g. alcohol, opiates, methamphetamine) in addition to larger, nontherapeutic amounts of benzodiazepines, the user is potentially creating a lethal cocktail of mixed substances. Fatal benzodiazepine overdoses often had one or more prescription opioids (excluding fentanyl) causing or contributing to death; however, this proportion has slowly decreased in recent years from nearly 90% in 2007 to 33.5% in 2023. Nearly 70% of benzodiazepine overdoses in 2023 also had fentanyl causing death.







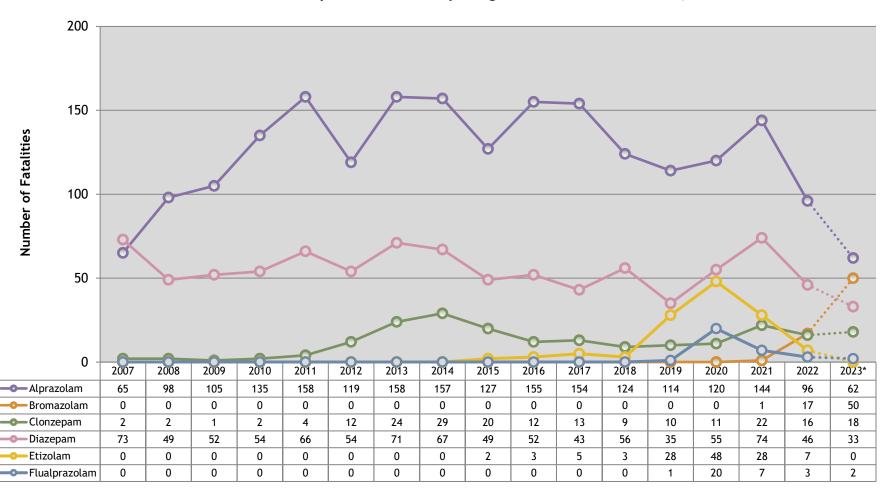
BENZODIAZEPINES



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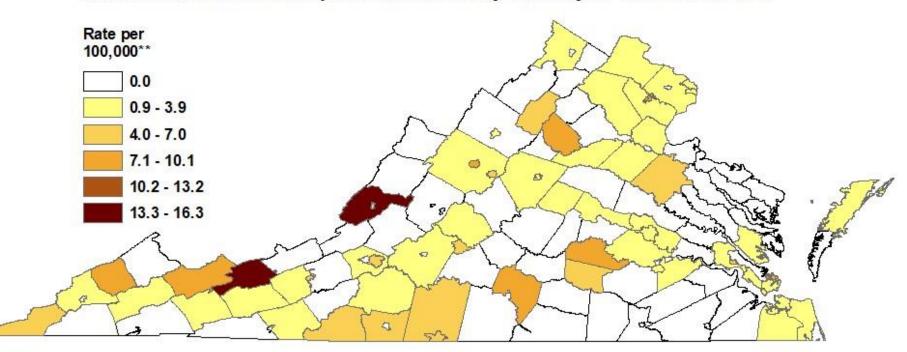
BENZODIAZEPINES



Total Number of Fatal Benzodiazepine Overdoses by Drug Name and Year of Death, 2007-2023*

¹ Flurazepam, lorazepam, midazolam, nordiazepam, oxazepam, temazepam and triazolam were excluded from this analysis because of low annual case counts (<20 deaths per year) ² Each benzodiazepine is tallied by each time it caused or contributed to death (analyzed from either toxicology or the cause of death statement) and therefore the total number of benzodiazepines will far exceed the actual number of fatalities





Rate of Fatal Benzodiazepine Overdoses by Locality of Overdose, 2023*

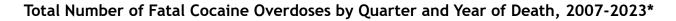
Source: Virginia Department of Health, Office of the Chief Medical Examiner

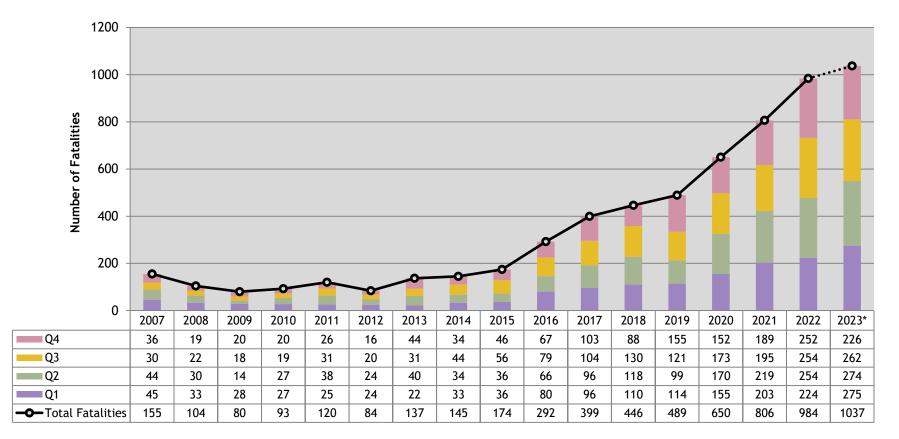
* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



COCAINE

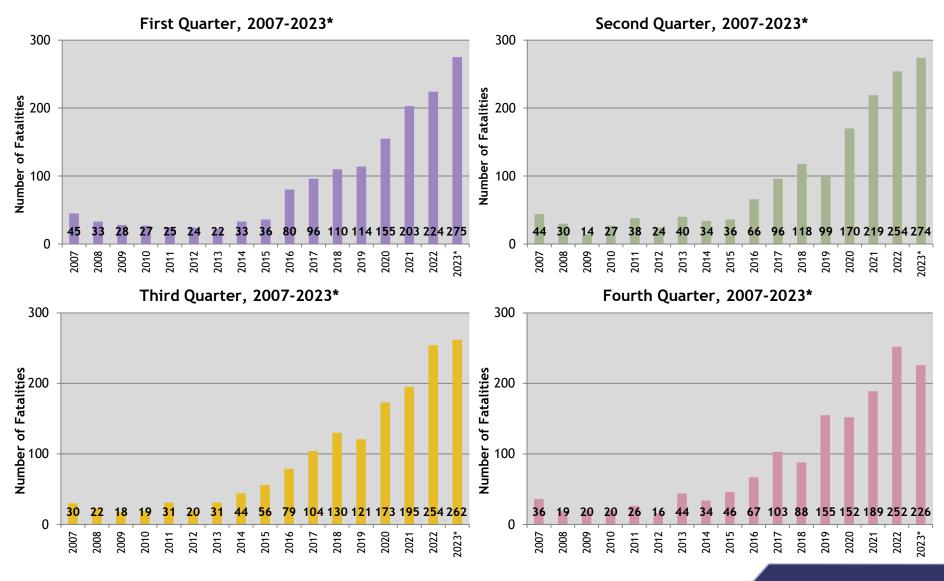
The total number of fatal cocaine-related overdoses statewide has been slowly increasing since 2013. Of the preliminary 1,037 fatal cocaine overdoses in 2023, 82.8% also included fentanyl (prescription, illicit, or analogs). The preliminary total number of fatal cocaine overdoses in 2023 increased 5.4% compared to 2022.







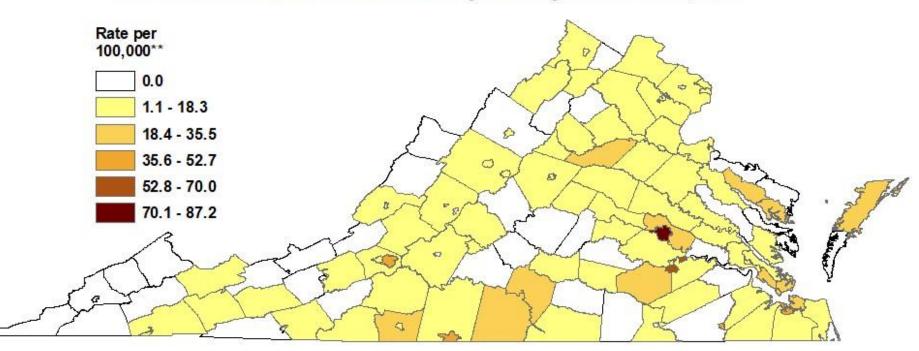
COCAINE



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Rate of Fatal Cocaine Overdoses by Locality of Overdose, 2023*

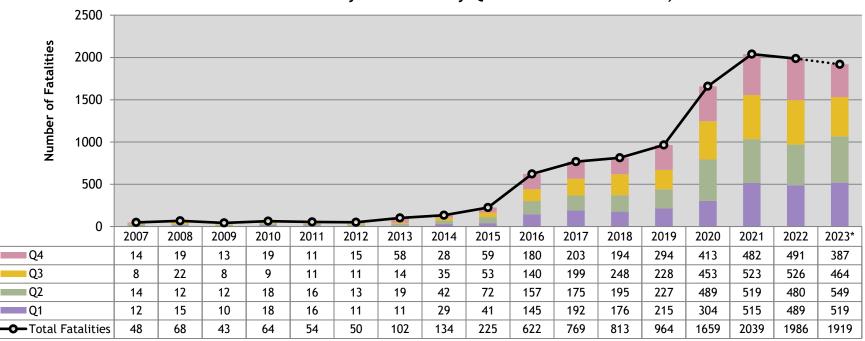
Source: Virginia Department of Health, Office of the Chief Medical Examiner

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FENTANYL

The number of fatal fentanyl-related drug overdoses began increasing in 2012; which coincides with the dramatic increase in fatal heroin overdoses. Prior to 2013, most fentanyl-related deaths were due to illicit use of pharmaceutically produced fentanyl. However, in late 2013, early 2014, law enforcement investigations and toxicology testing demonstrated an increase in illicitly produced fentanyl. By 2016, most fatal fentanyl-related overdoses were due to illicitly produced fentanyl and fentanyl analogs, and not pharmaceutically produced fentanyl. For statistical purposes, 'fentanyl' includes all pharmaceutically produced fentanyl, illicitly produced fentanyl, and fentanyl analogs. The preliminary number of fatal fentanyl overdoses in 2023 compared to 2022 decreased by 3.4%. In 2023, preliminary numbers indicate that fentanyl was involved in 76.4% of all drug overdose deaths.



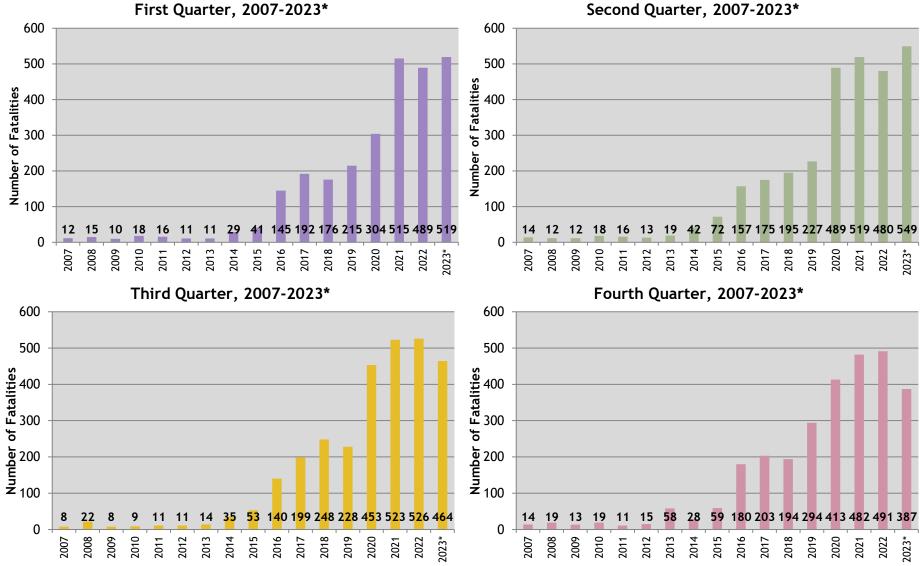


¹ Historically, fentanyl has been categorized as a prescription opioid because it is mass produced by pharmaceutical companies. However, law enforcement investigations and toxicology results have demonstrated that several recent fentanyl seizures have <u>not</u> been pharmaceutically produced, but illicitly produced. This illicit form of fentanyl is produced by international drug traffickers who import the drug into the United States and often, mix it into heroin being sold. This illicitly produced fentanyl has been the biggest contributor to the significant increase in the number of fatal opioid overdoses in Virginia.

² Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)



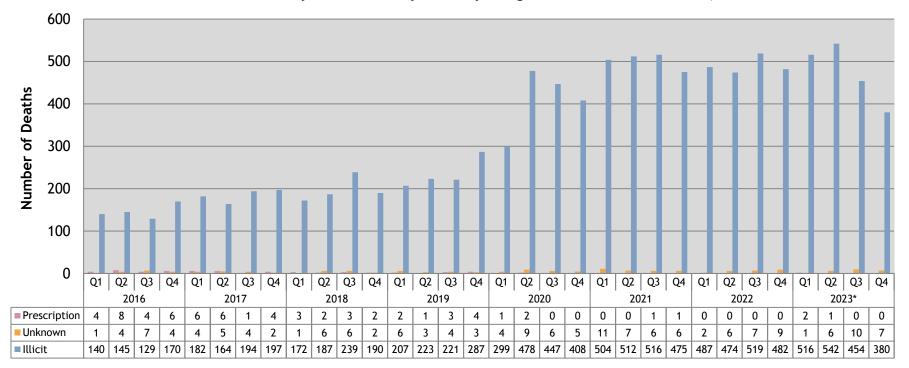
FENTANYL



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FENTANYL

In 2016, the OCME began collecting information on the suspected origin of fentanyl (pharmaceutical production, illicit production, or unknown) on all fatal overdoses involving fentanyl. The determination is made by reviewing the examination report, toxicology report, police report, and several other sources of information collected during the death investigation process. This classification is more subjective than objective, but still provides detailed insight to the current proportion of illicitly produced fentanyl in Virginia that is contributing to fatal overdoses. In 2023, it was estimated that nearly 99% of fatal fentanyl overdoses were due to the illicitly produced versions of the drug.



Total Number of Fatal Fentanyl Overdoses by Fentanyl Origin and Month of of Death, 2016-2023*

¹ Historically, fentanyl has been categorized as a prescription opioid because it is mass produced by pharmaceutical companies. However, recent law enforcement

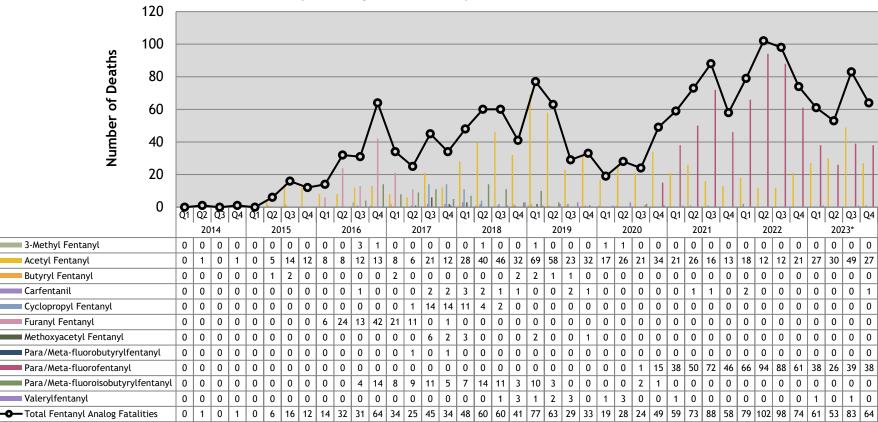
investigations and toxicology results have demonstrated that several recent fentanyl seizures have <u>not</u> been pharmaceutically produced, but illicitly produced. This illicit form of fentanyl is produced by international drug traffickers who import the drug into the United States and often, mix it into heroin being sold. This illicitly produced fentanyl has been the biggest contributor to the significant increase in the number of fatal opioid overdoses in Virginia.

² Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)



FENTANYL ANALOGS

Fentanyl analogs are a category of illicitly produced opioids very similar to fentanyl, but slightly different in their chemical structure. Fentanyl analogs began appearing in Virginia in 2014 and have fluctuated ever since. Fentanyl analogs are illicitly produced and vary in potency, and in part, attributed to the rise in fatal overdoses due to opioids. For statistical purposes, 'fentanyl' includes all pharmaceutically produced fentanyl, illicitly produced fentanyl, and fentanyl analogs.



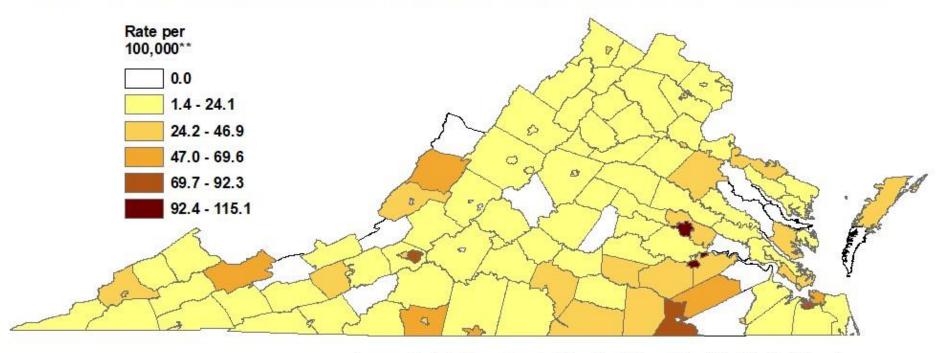
Total Number of Fatal Fentanyl Analog Overdoses by Quarter and Year of Death, 2014-2023*

¹ Each fentanyl analog is tallied by each time it caused or contributed to death (analyzed from either toxicology or the cause of death statement) and therefore the total number of analogs will exceed the actual number of fatalities

New² Previous reports combined para/meta-fluorobutyrylfentanyl, para/meta-fluorofentanyl, and para/meta-fluoroisobutyrylfentanyl analogs into one overarching category of para/meta-fluoroisobutrylfentanyl. From this report on, these compounds will be reported separately.



Rate of Fatal Fentanyl (Rx, Illicit, and Analogs) Overdoses by Locality of Overdose, 2023*



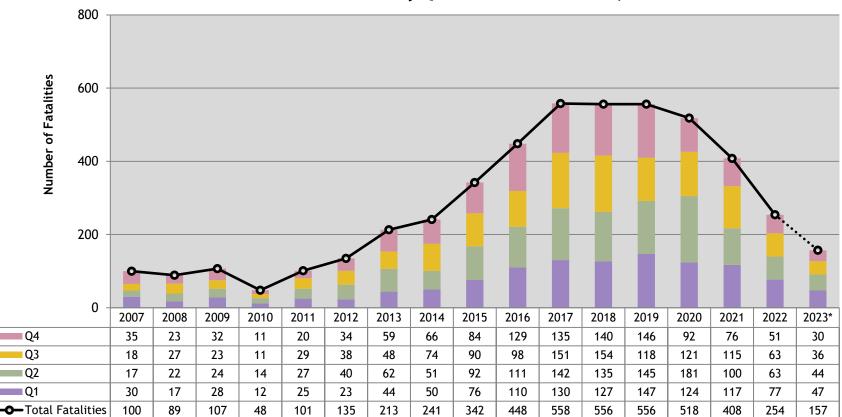
Source: Virginia Department of Health, Office of the Chief Medical Examiner

* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



HEROIN

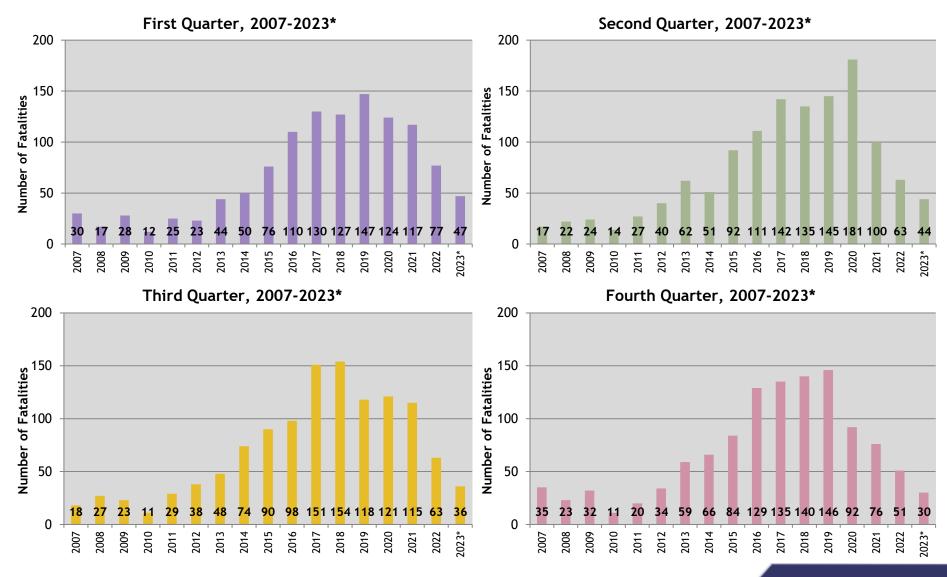
The total number of fatal heroin-related overdoses began increasing in 2010. Fatal heroin overdoses often occurred as the primary drug causing death, but more recently, heroin and fentanyl and/or fentanyl analog combinations caused a large portion of fatal drug overdoses. The annual number of fatal heroin overdoses in 2017-2019 were nearly identical, but began to decrease in 2020-2023. The preliminary number of heroin overdose deaths decreased by 38.2% in 2023 compared to 2022.



Total Number of Fatal Heroin Overdoses by Quarter and Year of Death, 2007-2023*

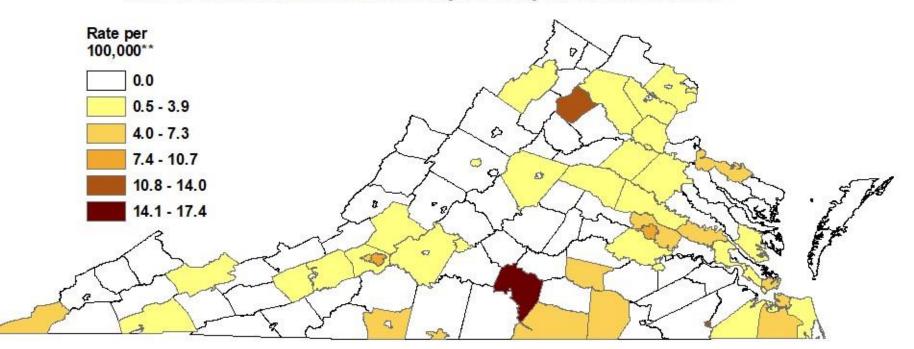


HEROIN



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Rate of Fatal Heroin Overdoses by Locality of Overdose, 2023*

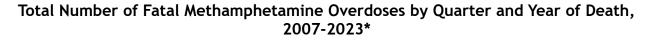
Source: Virginia Department of Health, Office of the Chief Medical Examiner

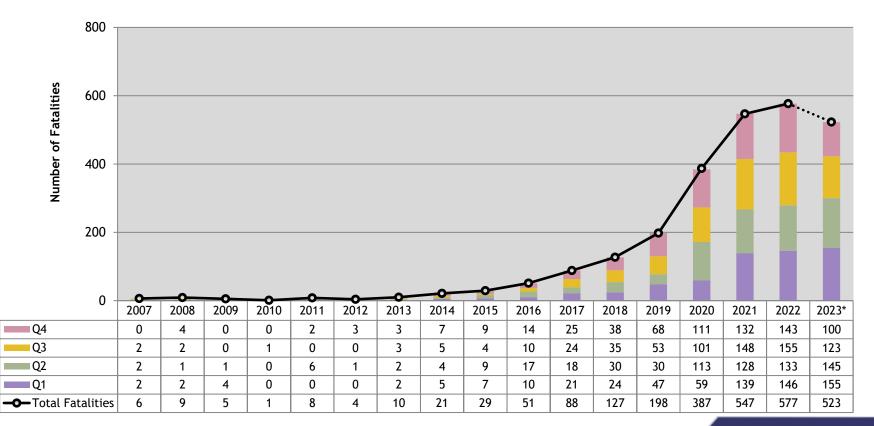
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METHAMPHETAMINE

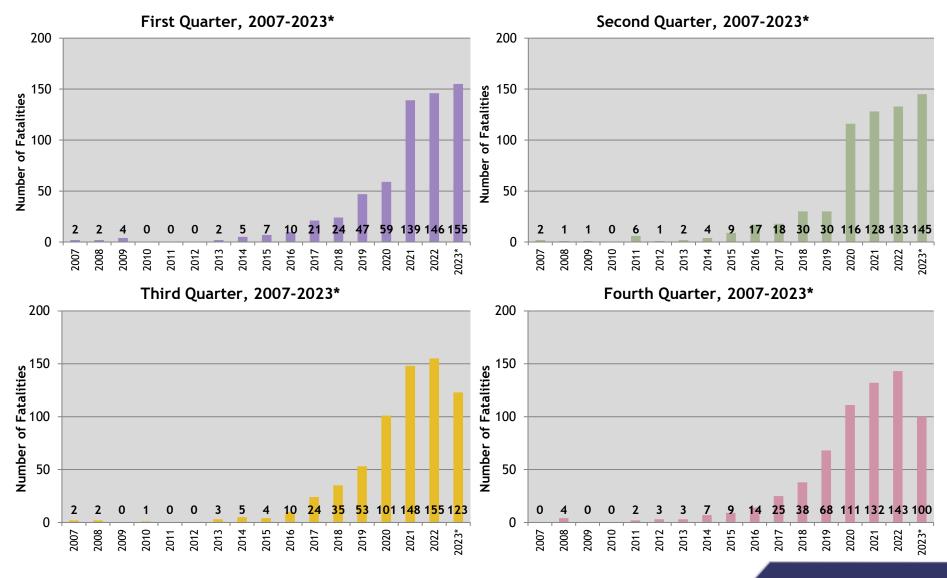
From 2007 to 2014, fatal methamphetamine overdoses were relatively uncommon compared to other drugs/drug categories, but in 2014, the number of fatal methamphetamine overdoses began to increase. In 2023, fatal methamphetamine overdoses most frequently had fentanyl (prescription, illicit, and/or analogs) causing or contributing to death (72.3%). The preliminary number of fatal methamphetamine overdoses decreased by 9.4% in 2023 when compared to 2022.







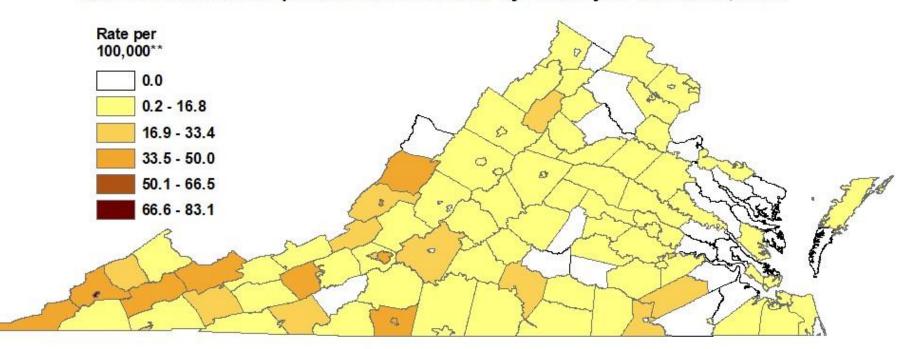
METHAMPHETAMINE



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Rate of Fatal Methamphetamine Overdoses by Locality of Overdose, 2023*

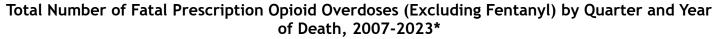
Source: Virginia Department of Health, Office of the Chief Medical Examiner

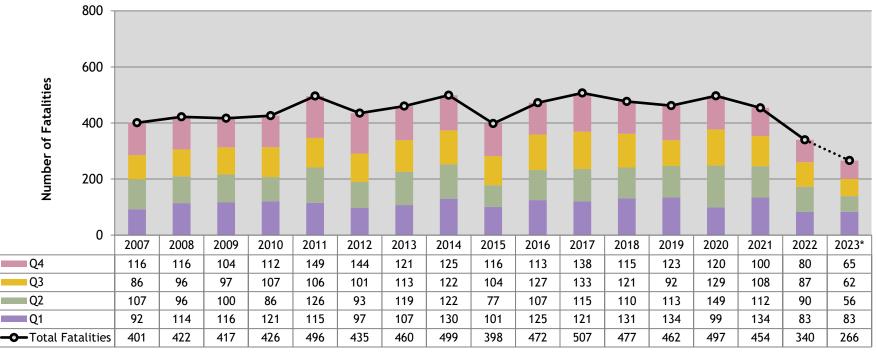
* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



PRESCRIPTION OPIOIDS (EXCLUDING FENTANYL)

Since 2007, fatal prescription (Rx) opioid overdoses have been the leading category of drugs causing or contributing to death in the Commonwealth, with historically, oxycodone being the most common drug. Given the transition in fatal fentanyl overdoses from pharmaceutically produced fentanyl (2007-2014) to nearly all illicitly produced fentanyl (2015-present), fentanyl needs to be removed from the Rx opioid category and analyzed separately. This allows one to see the significant impact the drug is having on fatal overdose numbers in Virginia. By removing fentanyl from this Rx category, it is to be expected that Rx opioid fatalities from 2007-2013 to be slightly undercounted because true Rx fentanyl overdoses are excluded and combined with all 'fentanyl' to capture recent trends of illicit fentanyl in Virginia.

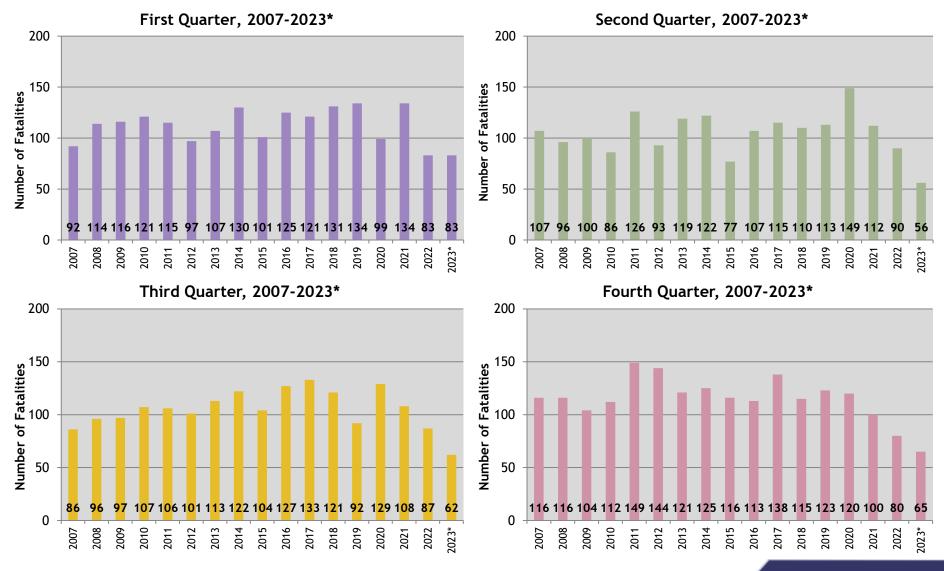




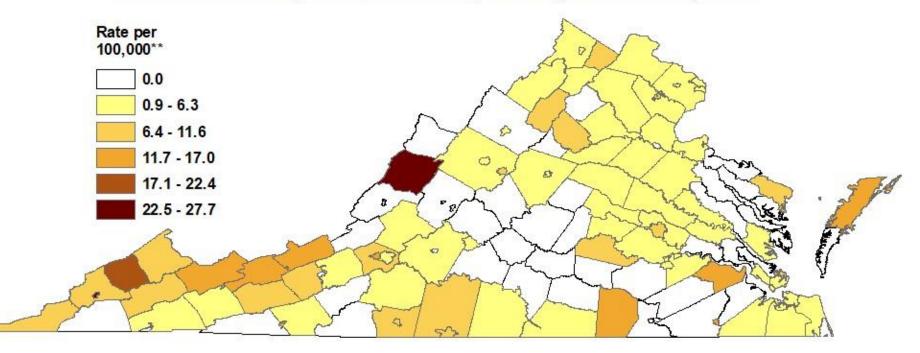
¹ 'Prescription Opioids (excluding fentanyl)' calculates all deaths in which one or more prescription opioids caused or contributed to death, but excludes fentanyl from the <u>required list</u> of prescription opioid drugs used to calculate the numbers. However, given that some of these deaths have multiple drugs on board, some deaths may have fentanyl in addition to other prescriptions opioids, and are therefore counted in the total number. Analysis must be done this way because by excluding all deaths in which fentanyl caused or contributed to death, the calculation would also exclude other prescription opioid deaths (oxycodone, methadone, etc.) from the analysis and would thereby undercount the actual number of fatalities due to these true prescription opioids.



PRESCRIPTION OPIOIDS (EXCLUDING FENTANYL)



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Rate of Fatal Rx Opioid Overdoses by Locality of Overdose, 2023*

Source: Virginia Department of Health, Office of the Chief Medical Examiner

* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



FATAL DRUG OVERDOSES OF SPECIAL INTEREST

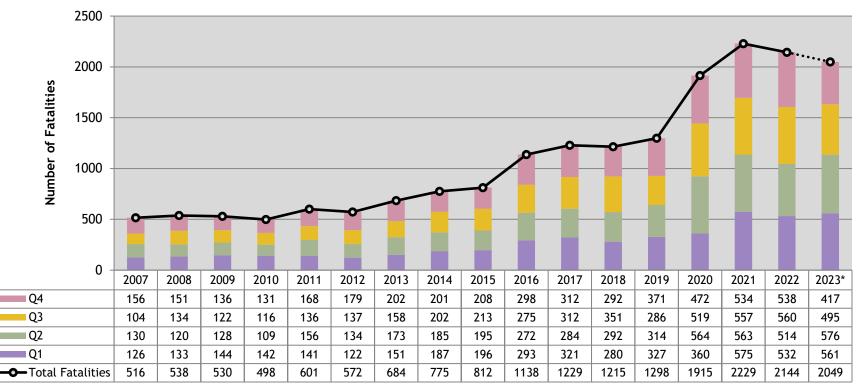


- All Opioids (Fentanyl, Heroin, and/or Prescription Opioids)
- Heroin and/or Fentanyl



ALL OPIOIDS

From 2007-2015, opioids (fentanyl, heroin, U-47700, and/or one or more prescription opioids) made up approximately 75% of all fatal drug overdoses annually in Virginia. However, this percentage is increasing each year due to the significant increase in fatal fentanyl and/or heroin overdoses which began in late 2013 and early 2014. Preliminary numbers for 2023 indicated that 81.5% of all fatal overdoses of any substance were due to one or more opioids. The preliminary number of fatal opioid overdoses in 2023 decreased 4.4% from the previous year.



Total Number of Fatal Opioid Overdoses by Quarter and Year of Death, 2007-2023*

¹ 'All Opioids' includes all versions of fentanyl, heroin, prescription opioids, U-47700, nitazenes, and opioids unspecified

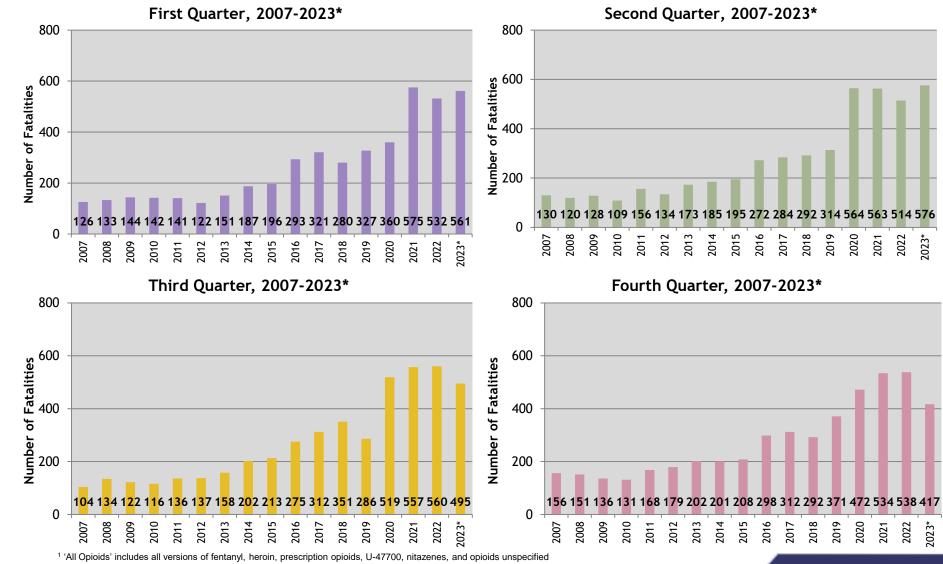
² 'Opioids Unspecified' are a small category of deaths in which the determination of heroin and/or one or more prescription opioids cannot be made due to specific

circumstances of the death. Most commonly, these circumstances are a result of death several days after an overdose, in which the OCME cannot test for toxicology because the substances have been metabolized out of the decedent's system.

³ Fatal opioid numbers have changed slightly from past reports due to the removal of fentanyl from the category of prescription opioids, as well as the addition of buprenorphine, levorphanol, meperidine, pentazocine, propoxyphene, and tapentadol added to the list of prescription opioids.



ALL OPIOIDS



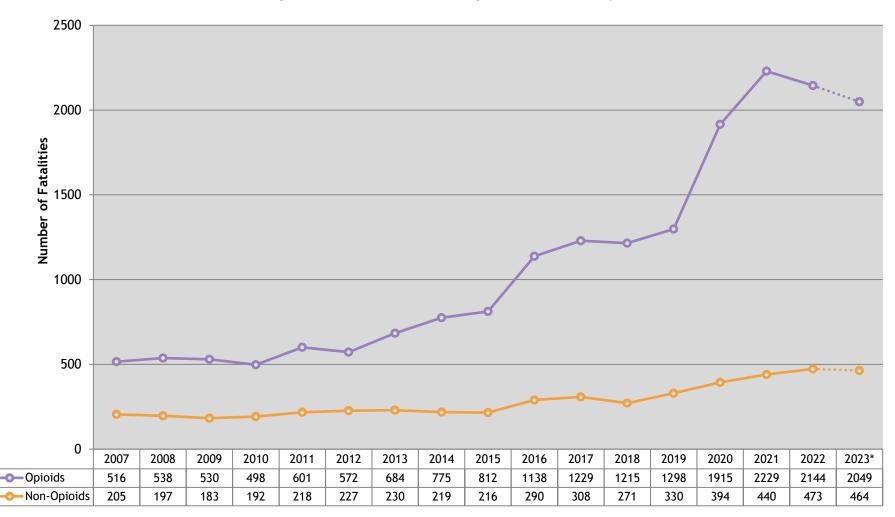
² 'Opioids Unspecified' are a small category of deaths in which the determination of heroin and/or one or more prescription opioids cannot be made due to specific circumstances of the death. Most commonly, these circumstances are a result of death several days after an overdose, in which the OCME cannot test for toxicology because the substances have been metabolized out of the decedent's system.



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OPIOIDS VS. NON-OPIOIDS

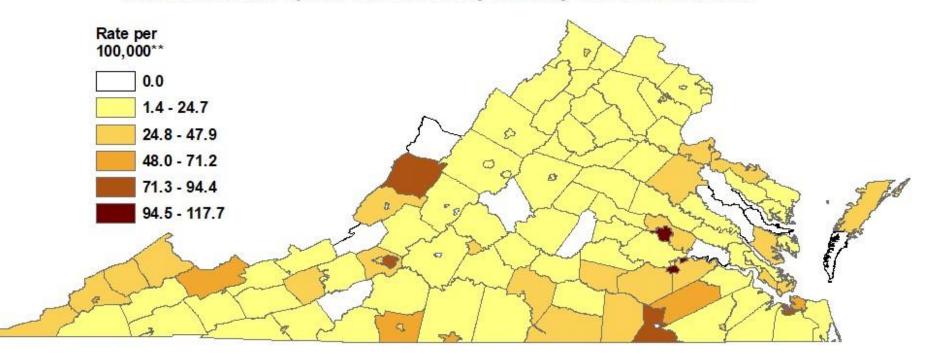
Total Number of Fatal Opioid Overdoses vs. Non-Opioid Overdoses by Year of Death, 2007-2023*



¹ 'All Opioids' includes all versions of fentanyl, heroin, prescription opioids, U-47700, nitazenes, and opioids unspecified

² 'Opioids Unspecified' are a small category of deaths in which the determination of heroin and/or one or more prescription opioids cannot be made due to specific circumstances of the death. Most commonly, these circumstances are a result of death several days after an overdose, in which the OCME cannot test for toxicology because the substances have been metabolized out of the decedent's system.





Rate of All Fatal Opioid Overdoses by Locality of Overdose, 2023*

Source: Virginia Department of Health, Office of the Chief Medical Examiner

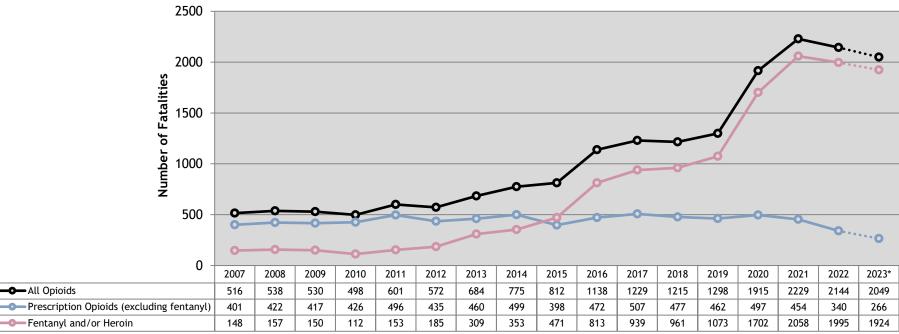
* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



OPIOIDS- A DIFFERENT PERSPECTIVE

Prescription opioids are a group of drugs that are commercially made by pharmaceutical companies in certified laboratories that act upon the opioid receptors in the brain. Historically, fentanyl has been one of these drugs. However, in late 2013, early 2014, illicitly made fentanyl began showing up in Virginia and by 2016, most fatal fentanyl overdoses were of illicit production of the drug. Separating fentanyl from the grouping of prescription opioids for this reason demonstrates a slight decrease in fatal prescription opioid overdoses in 2015 and a dramatic increase in the number of fatal fentanyl and/or heroin overdoses. This has caused the significant rise in all fatal opioid overdoses in the Commonwealth since 2012.

Total Number of Prescription Opioid (Excluding Fentanyl), Fentanyl and/or Heroin, and All Opioid Overdoses by Year of Death, 2007-2023*



¹ 'All Opioids' includes all versions of fentanyl, heroin, prescription opioids, U-47700, nitazenes, and opioids unspecified

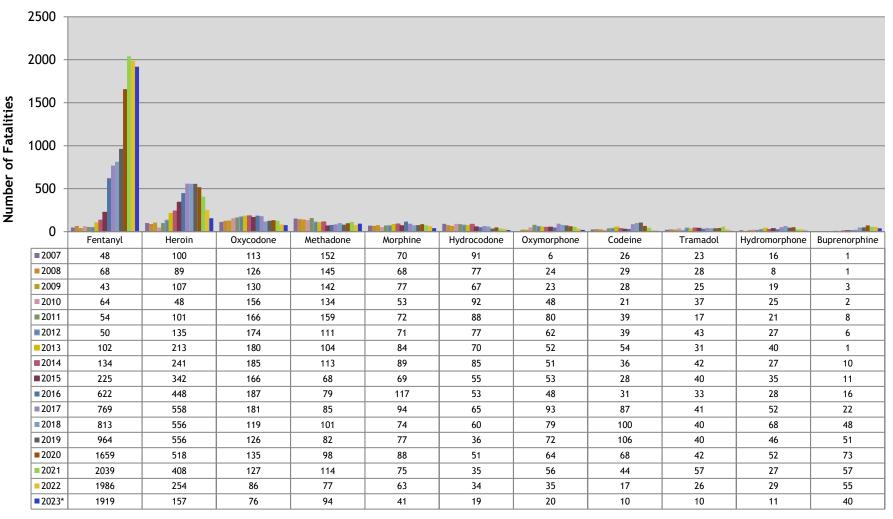
² Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)

³ 'Prescription Opioids (excluding fentanyl)' calculates all deaths in which one or more prescription opioids caused or contributed to death, but excludes fentanyl from the **required list** of prescription opioid drugs used to calculate the numbers. However, given that some of these deaths have multiple drugs on board, some deaths may have fentanyl in addition to other prescriptions opioids, and are therefore counted in the total number. Analysis must be done this way because by excluding all deaths in which fentanyl caused or contributed to death, the calculation would also exclude other prescription opioid deaths (oxycodone, methadone, etc.) from the analysis and would thereby undercount the actual number of fatalities due to these true prescription opioids.



ALL OPIOIDS

Total Number of Fatal Opioid Overdoses by Drug Name and Year of Death, 2007-2023*



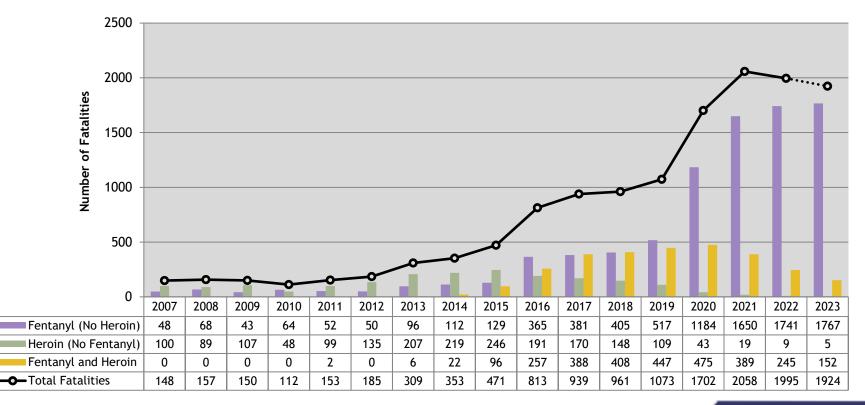
¹ Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)

² Levorphanol, meperidine, pentazocine, propoxyphene, and tapentadol were excluded from this analysis due low annual case counts (<20 deaths)



FENTANYL AND/OR HEROIN

The total number of fatal fentanyl and/or heroin overdoses have significantly increased since late 2012. It is important to look at these two drugs together because as heroin became more popular in 2010, fentanyl occasionally began showing up as an additive to the heroin. By late 2013 and early 2014, some heroin being sold on the street was actually completely fentanyl, unbeknownst to the user. It is essential to look at these fentanyl (no heroin), heroin (no fentanyl), and fentanyl and heroin combination deaths together because users never know exactly what is in the illegal drugs purchased off the streets. The preliminary number of fatal fentanyl and/or heroin overdoses decreased 3.6% in 2023 compared to 2022.

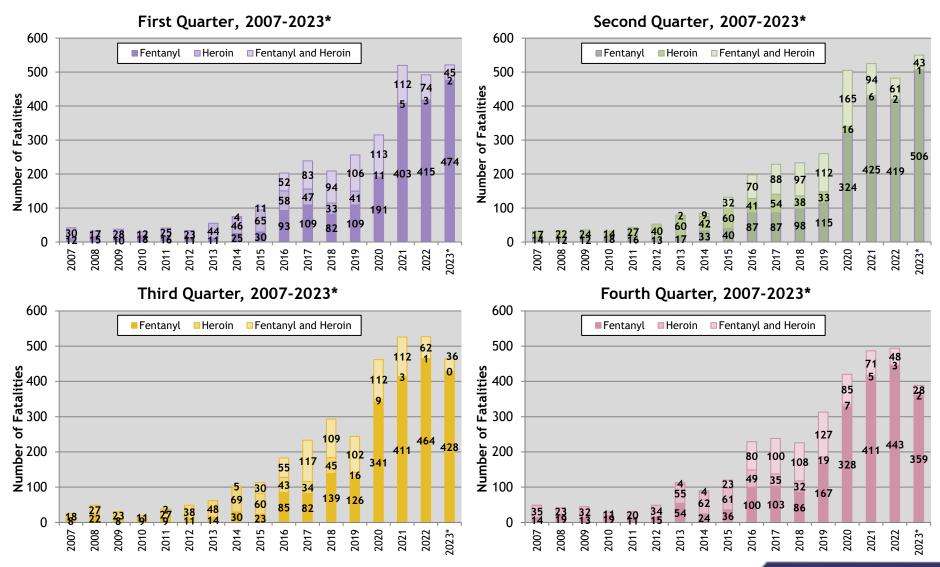


Total Number of Fatal Fentanyl and/or Heroin Overdoses by Year of Death, 2007-2023*

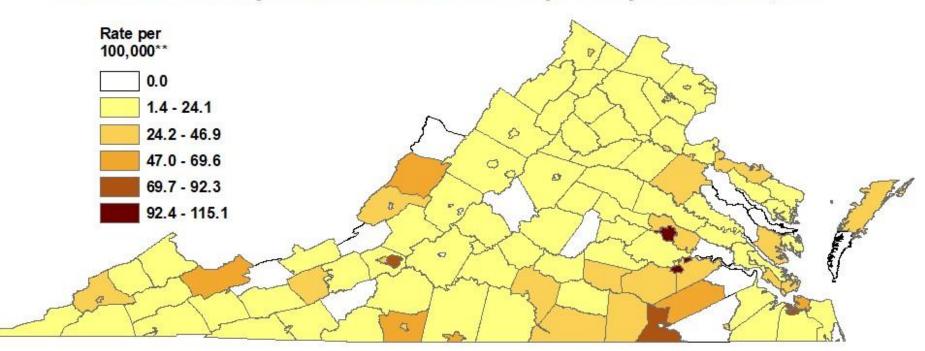
¹ Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)



FENTANYL AND/OR HEROIN



VIDHORINA DEPARTMENT Protecting You and Your Environment



Rate of Fatal Fentanyl and/or Heroin Overdoses by Locality of Overdose, 2023*

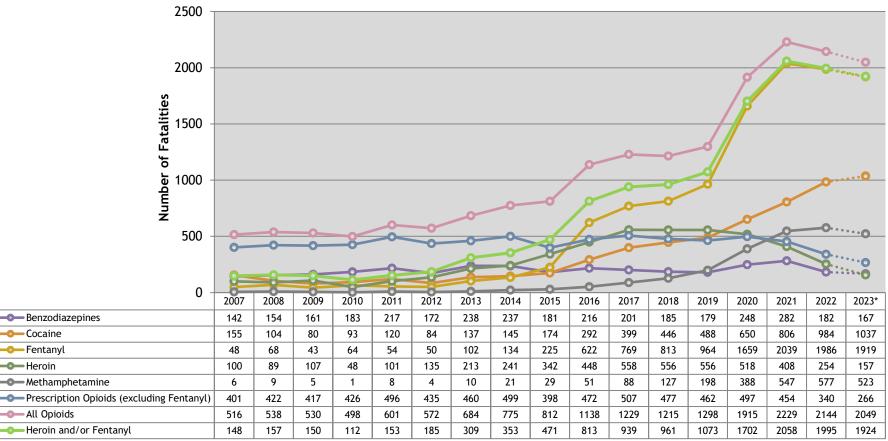
Source: Virginia Department of Health, Office of the Chief Medical Examiner

* Data for 2023 is incomplete, preliminary, and subject to change. At the time of this analysis, ~130 cases from 2023 were still pending the cause of death and are therefore not included in this analysis



ALL DRUGS

Total Number of Fatal Drug Overdoses Drug Name/Category and Year of Death, 2007-2023*



¹ Deaths may be represented in more than one category due to groupings of drug categories (e.g. heroin)

² 'All Opioids' includes all versions of fentanyl, heroin, prescription opioids, U-47700, nitazenes, and opioids unspecified

³ 'Opioids Unspecified' are a small category of deaths in which the determination of which opioid(s) involved in the death cannot be identified due to specific circumstances of the death. Most commonly, these circumstances are a result of death several days after an overdose, in which the OCME cannot test for toxicology because the substances have been metabolized out of the decedent's system.

⁴ Historically, fentanyl has been categorized as a prescription opioid because it is mass produced by pharmaceutical companies. However, recent law enforcement investigations and toxicology results have demonstrated that several recent fentanyl seizures have <u>not</u> been pharmaceutically produced, but illicitly produced. This illicit form of fentanyl is produced by international drug traffickers who import the drug into the United States and often, mix it into heroin being sold. This illicitly produced fentanyl has been the biggest contributor to the significant increase in the number of fatal opioid overdoses in Virginia.

⁵ Illicit and pharmaceutically produced fatal fentanyl overdoses are represented in this analysis. This includes all different types of fentanyl analogs (acetyl fentanyl, furanyl fentanyl, etc.)



CONTACT INFORMATION

This report is compiled by the Virginia Department of Health, Office of the Chief Medical Examiner. For additional information regarding these or other statistics, please contact:

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This report and associated spreadsheets of various types of drug deaths by locality and year are available on the OCME website: <u>https://www.vdh.virginia.gov/medical-examiner/forensic-epidemiology/</u>

