



GOVERNMENT OF THE DISTRICT OF COLUMBIA
OFFICE OF THE CHIEF MEDICAL EXAMINER
401 E Street, SW – 6th Floor
Washington, DC 20024



Opioid-related Fatal Overdoses: January 1, 2014 to September 17, 2019¹

Report Date: November 18, 2019

The DC Office of the Chief Medical Examiner (OCME) investigated a total of **1096²** deaths due to the use of opioids from January 1, 2014 through September 17, 2019. This report examines the presence of opioids (*heroin, fentanyl, fentanyl analogs, morphine, prescription opioids and the general category of opiates*) in deaths observed at the OCME.

Trends in Deaths due to Opioid Use

There was a steady increase in the number of fatal opioid overdoses between 2014 and 2017 (Fig.1(a)). However, the number of opioid overdoses in 2018 decreased by 24.2% compared to 2017.

In 2017, there was an average of 23 opioid-related fatal overdoses per month. However, the number of opioid-related overdoses per month decreased to average 17 per month in 2018. Compared to 2018 between January and June, there is an increase in opioid overdoses in 2019 during the same time period.

In the first half of 2019, there are 20 fatal opioid overdoses per month. Data for 2019 is inconclusive and subject to change due to cases where cause and manner of death is “Pending Further Investigation.”

Fig. 1(a): Number and Rate of Fatal Opioid Overdose Cases by Year, 2014-2018

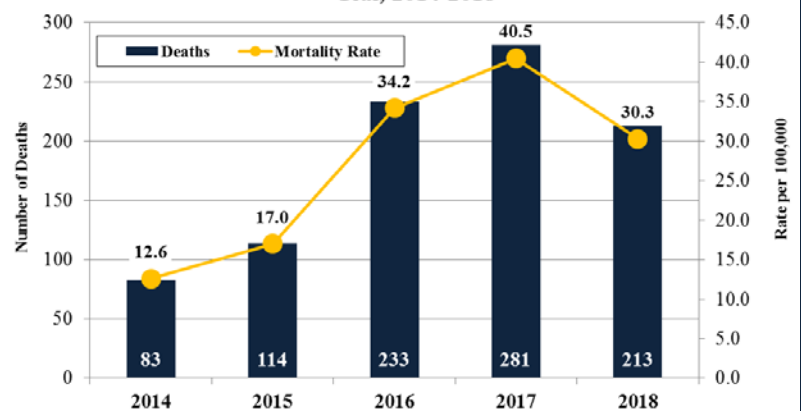
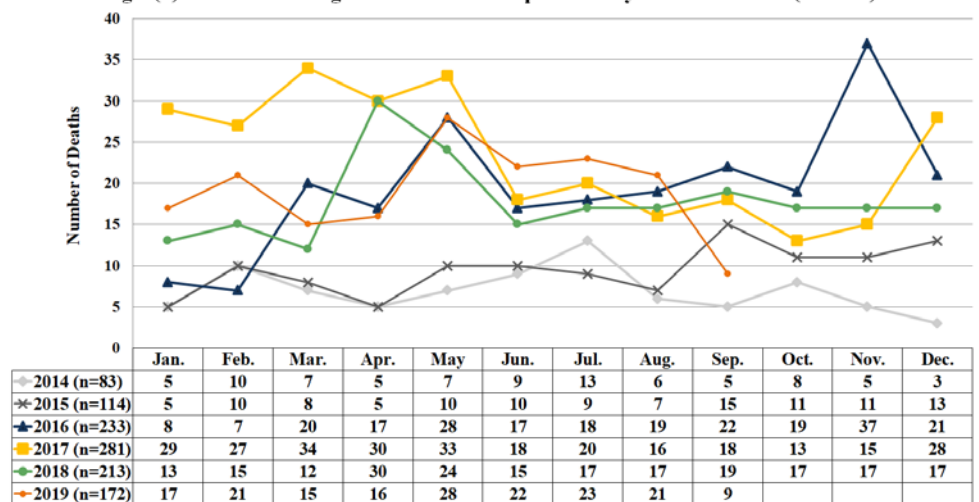


Fig. 1(b): Number of Drug Overdoses due to Opioid Use by Month and Year (N=1096)



¹ Data for 2019 is inconclusive and subject to change due to cases where cause and manner of death is “Pending Further Investigation.”

² The data presented in this report includes 19 cases with deaths due to opioid drug use where the Manner of Death was not “Accident:” 5 cases in 2014, 2 cases in 2015, 4 cases in 2016, 5 cases in 2017, 2 cases in 2018 and 1 case in 2019 YTD.



Incidence of Opioids by Year

As depicted in Figure 2(a), there has been a steady increase in the total number of opioids found in fatal overdoses between 2014 and 2017. The majority of opioid overdoses were due to multiple drug toxicity, ranging from 1 to 7 opioids per death. The total number of opioids³ identified in the fatal opioid overdoses per year ranges from the lowest being **122** in 2014 to the highest being **537** in 2017. **If current trends persist, there will be more opioids identified in the 2019 fatal opioid overdoses than in the past year.**

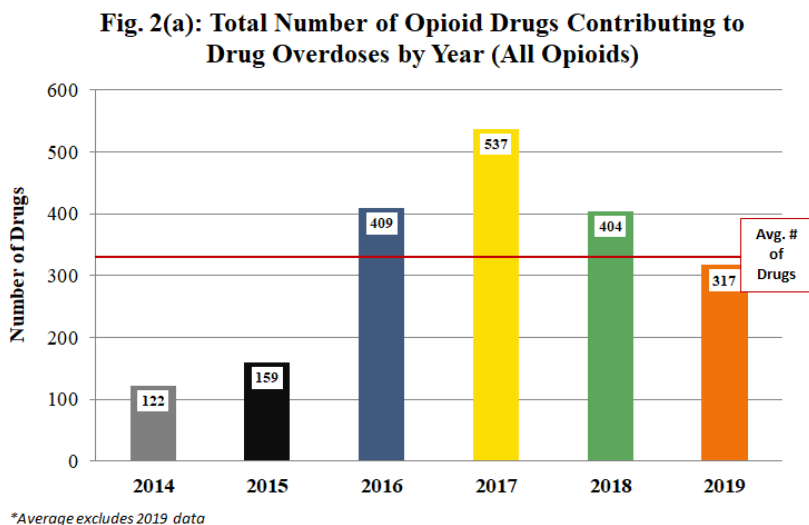
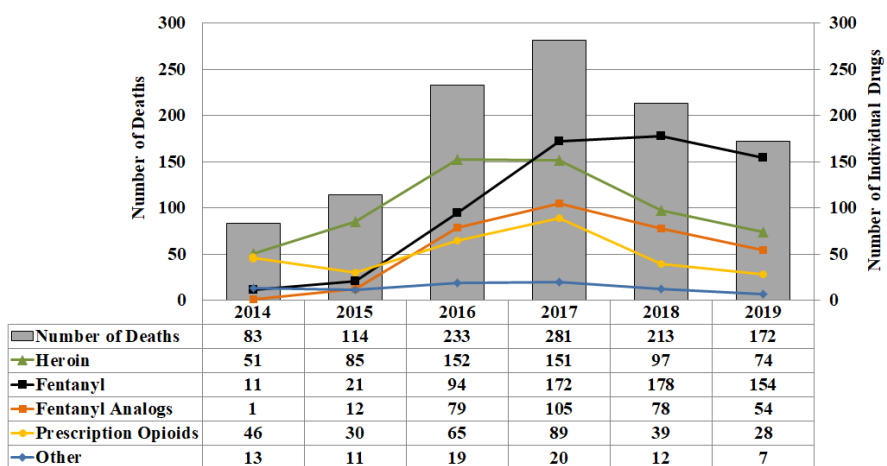


Fig. 2(b): Total Number of Opioid Drugs Contributing to Drug Overdoses by Year (All Opioids)

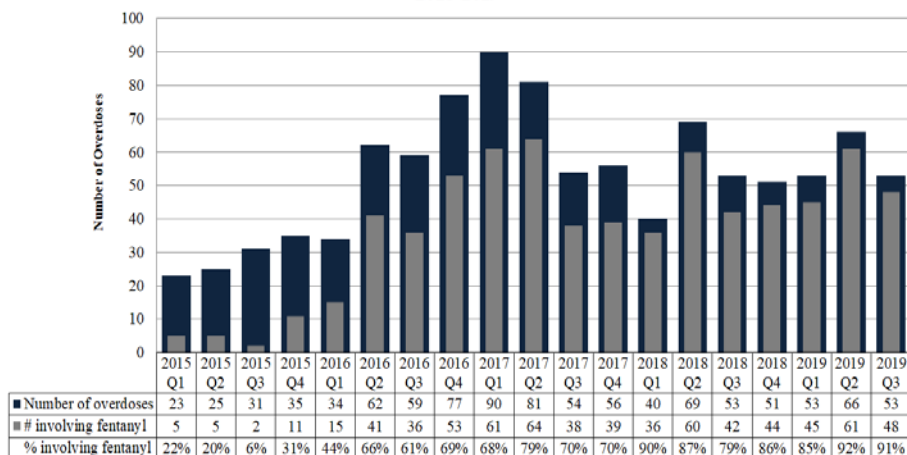
Figure 2(b) displays the illicit and prescription opioids identified through toxicology testing of the 1096 decedents from 2014 to September 17, 2019. Between 2014 and 2016, the most prevalent drug identified was heroin. However, beginning in 2017, the most prevalent drug identified is fentanyl. The most prevalent fentanyl analogs identified are furanyl fentanyl, p-fluoroisobutyl fentanyl, acetyl fentanyl and despropionyl fentanyl.



Increase in Fentanyl/Fentanyl Analogs in Opioid Overdoses

Figure 3 highlights the increasing percentage of cases containing fentanyl or fentanyl analogs. The percentage of cases containing fentanyl or a fentanyl analog has gradually increased since 2015. In 2016, **60%** of cases involved fentanyl or a fentanyl analog. The noticeable increase in the presence of fentanyl and fentanyl analogs began in March 2016, with over half of the cases containing fentanyl. In 2018, **86%** of the cases contained fentanyl or a fentanyl analog.

Fig. 3 Number of Opioid Overdoses Containing Fentanyl/Fentanyl Analogs by Quarter, 2015-2019



³ Morphine and fentanyl can both be prescribed. However, for the sake of this report, they are included under the illicit opioids.



Prescription Opioids

There were **298** prescription opioids found in the 1074 opioid related drug overdoses between January 2014 and July 2019 (Fig. 4). Despite the downward trend between 2014 (n=46) and 2015 (n=30), the number of prescription opioids identified in fatal opioid overdoses had increased steadily between 2016 (n=65) and 2017 (n=89). However, the number of prescription opioids identified in fatal opioid deaths has decreased to 40 in 2018. Figure 4 illustrates that methadone and oxycodone are currently the most prevalent prescription opioids identified.

Demographics

Age

Approximately **78%** of all overdoses due to opioid drug use happen among adults between the ages of 40-69 years old (Fig. 5). Deaths due to opioid use were most prevalent among people ages 50 to 59 (n=37%).

Race/Ethnicity

Overall, **897** or **82%** of all deaths due to opioid use were among Blacks (Fig. 6). This trend remains consistent across years.

Gender

Fatal overdoses due to opioid drug use were more common among **males** (Fig. 7).

Fig. 4: Number of Prescription Opioids Contributing to Drug Overdoses by Year (n=298)

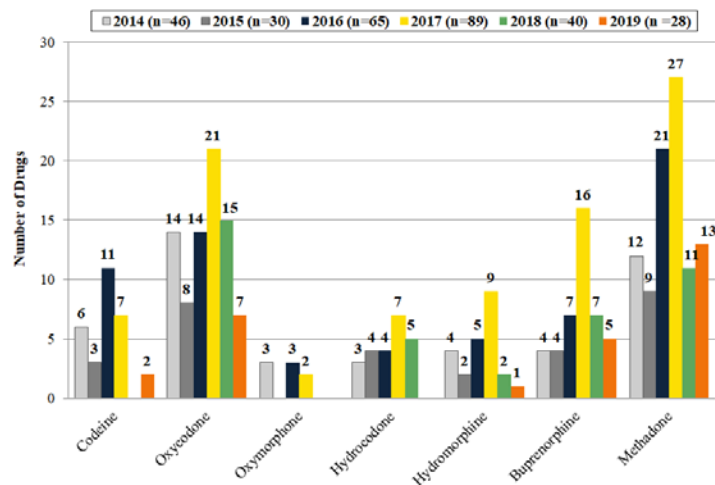


Fig. 5: Drug Overdoses due to Opioid Use by Age

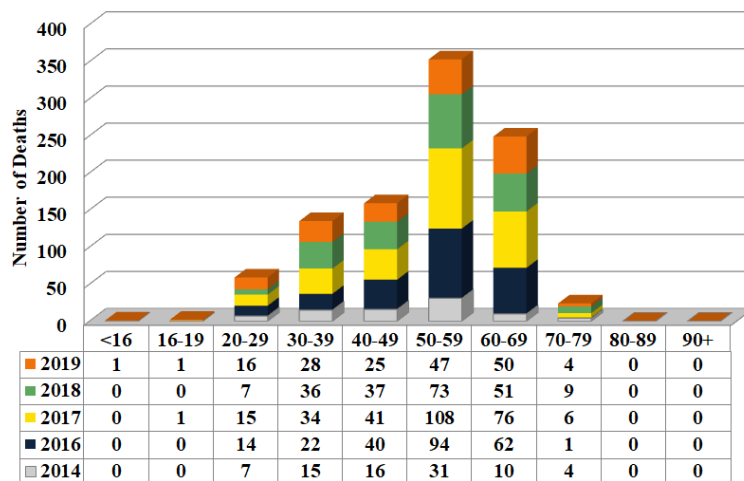


Fig. 6: Number of Drug Overdoses due to Opioid Use by Race/Ethnicity and Year

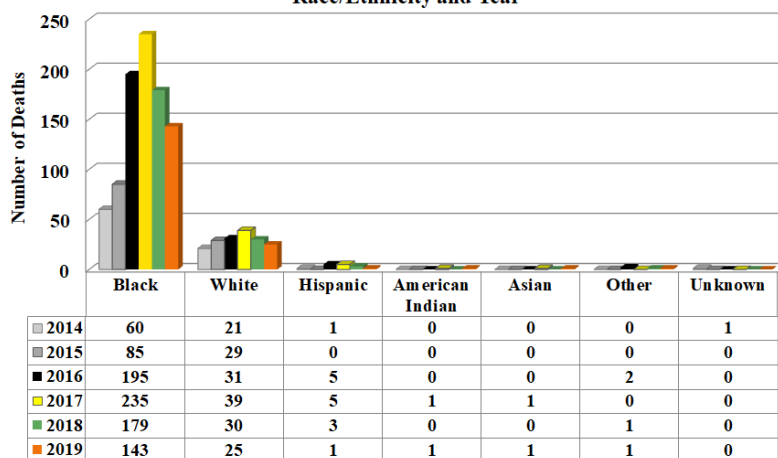
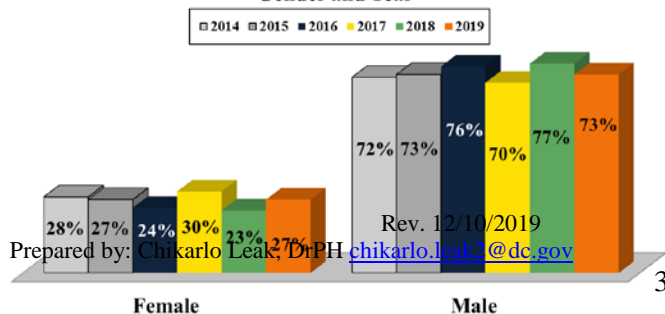


Figure 7: Percentage of Drug Overdoses due to Opioid Use by Gender and Year



Jurisdiction of Residence¹

The majority of the decedents were residents of DC (Fig.8). From 2014 to September 17 2019, opioid-related fatal overdoses were most prevalent in **Wards 7 & 8** (n=398) (Fig.9). However, there are variations across years.

Fig. 8: Number of Drug Overdoses due to Opioid Use by Jurisdiction of Residence and Year

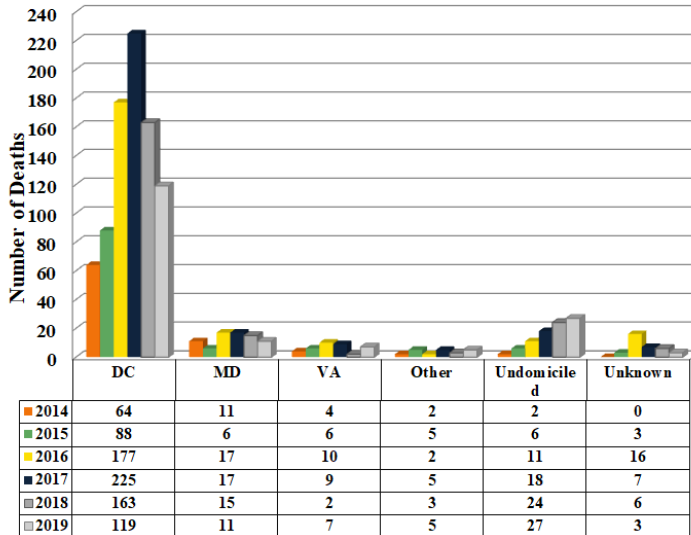
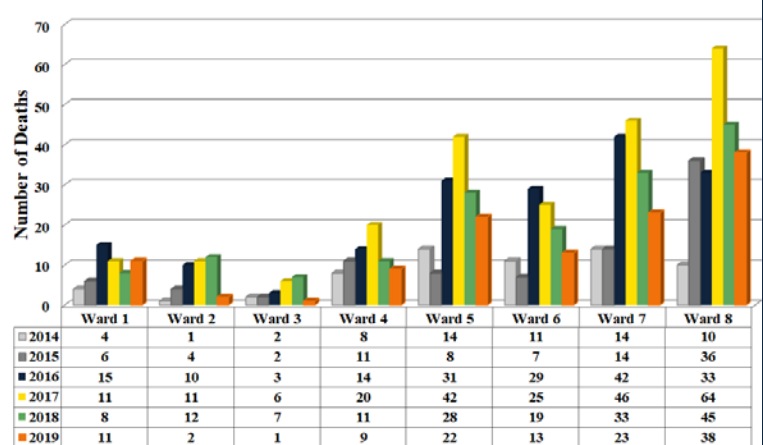


Fig. 9: Number of Drug Overdoses due to Opioid Use by Ward of Residence and Year



Map of 2019 Opioid Overdoses

