



GOVERNMENT OF THE DISTRICT OF COLUMBIA
 OFFICE OF THE CHIEF MEDICAL EXAMINER
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 Washington, DC 20024

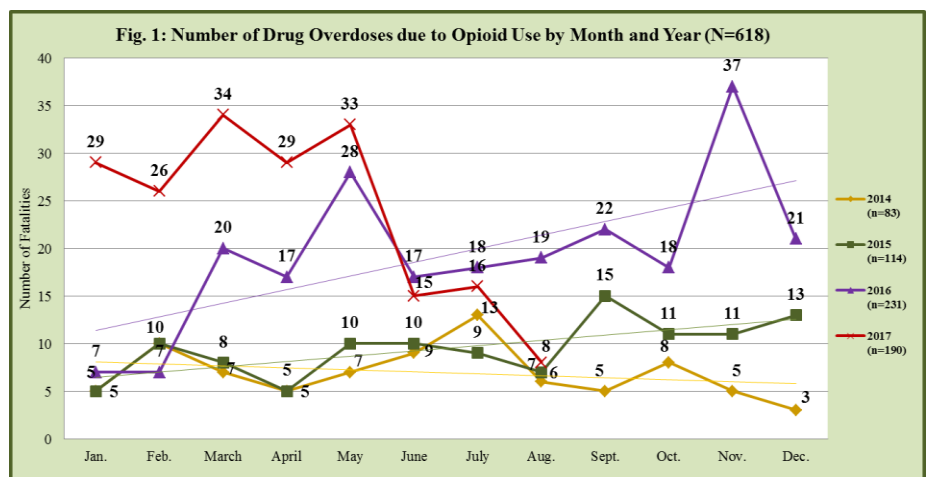
Opioid-related Fatal Overdoses: January 1, 2014 to August 31, 2017¹

Report Date: October 25, 2017

The DC Office of the Chief Medical Examiner (OCME) investigated a total of **577²** deaths due to use of opioids from Jan. 1, 2014 through May 31, 2017: **83** deaths in CY 2014, **114** in CY 2015, **231** deaths to in CY 2016, and **190** deaths in CY 2017 respectively. This report examines the presence of opioids (*heroin, fentanyl, fentanyl analogs, morphine, prescription opioids and the general category of opiates*) in deaths observed at OCME. Tables and graphs below present decedent information by trends, demographics and jurisdiction of residence.

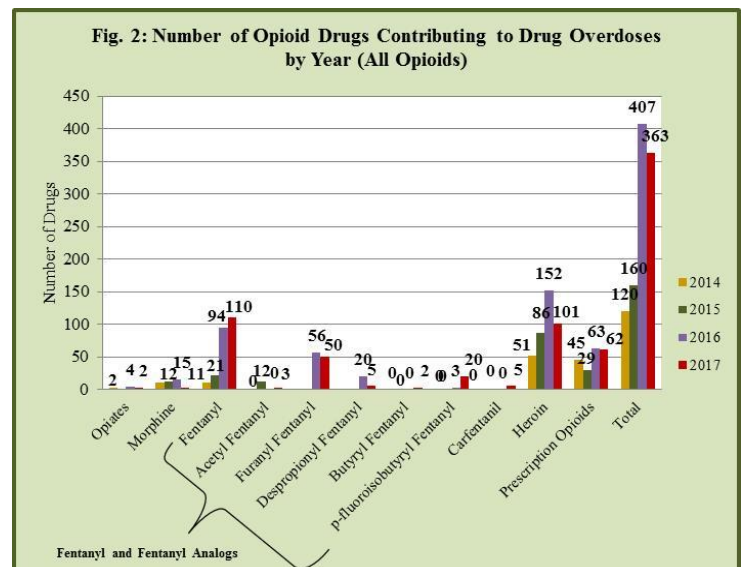
Trends in Deaths due to Opioid Use

The number of deaths due to opioid use in November 2016 was higher than any other month over the past three years (Fig. 1). Overall, there was a **178%** increase in fatal overdoses due to opioid use from 2014 (n=83) to 2016 (n=231). **Currently, there are more opioid overdoses in 2017 than there were in 2016 during the same time period (Jan-Aug).**



Incidence of Opioids by Year

Each drug is counted independently in fatalities involving more than one of these drugs and ranged from 1 to 7 opioids identified per death. Therefore, there were a total of **120** opioids³ found in the 83 deaths in 2014, **160** opioids found in the 114 deaths in 2015 and **407** opioids found in the 231 deaths in 2016. In 2017, there have been **363** opioids found in the 190 deaths year-to-date. As depicted in Figure 2, the total number of opioids that caused a death increased from 2014 to 2016.



¹ Data for 2017 is inconclusive and subject to change due to cases where cause and manner of death is “Pending Further Investigation”

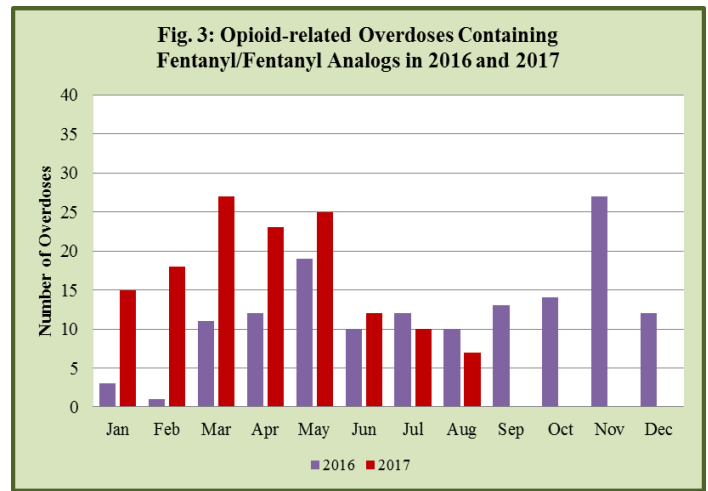
² The data presented in this report includes 11 cases with a Manner of Death other than Accidental Intoxication- three cases in 2014, one case in 2015, and one case in 2016 in which the Manner of Death was Undetermined but the Cause of Death was due to opioid drug use. Additionally there were two cases with Manner of Death of Suicide in 2014, one case in 2015 and three cases in 2016.

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



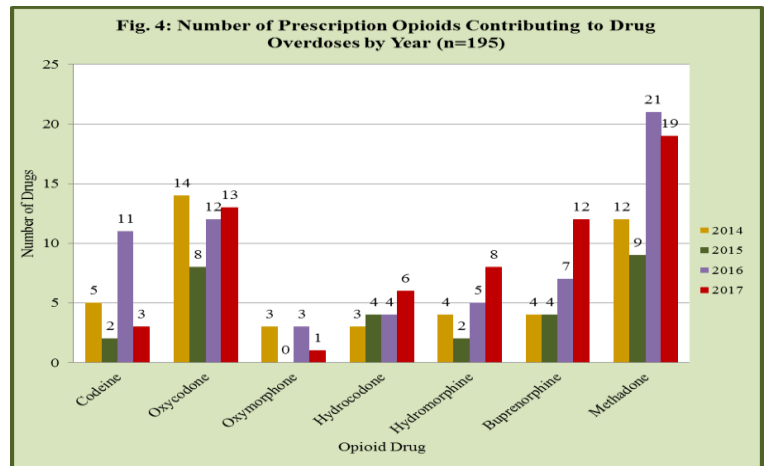
Increase in the Presence of Fentanyl/Fentanyl Analogs

In 2016, **62%** of cases involved fentanyl or a fentanyl analog (fentanyl, furanyl-fentanyl, despropionyl-fentanyl, or p-fluoroisobutyryl-fentanyl). There was a noticeable increase in the presence of fentanyl and fentanyl analogs beginning in March 2016 (n=11). The highest percentage of cases involving fentanyl or a fentanyl analog occurred in October 2016 (78%) and March 2017 (79%). The fewest cases involving fentanyl or a fentanyl analog occurred in February 2016 (n=14%). In 2017 to date, **72%** of the cases contain fentanyl or a fentanyl analog. **In addition, drugs (U-47700, carfentanil and butyryl fentanyl) present in other regions of the country were found amongst several of our decedents.**



Prescription Opioids

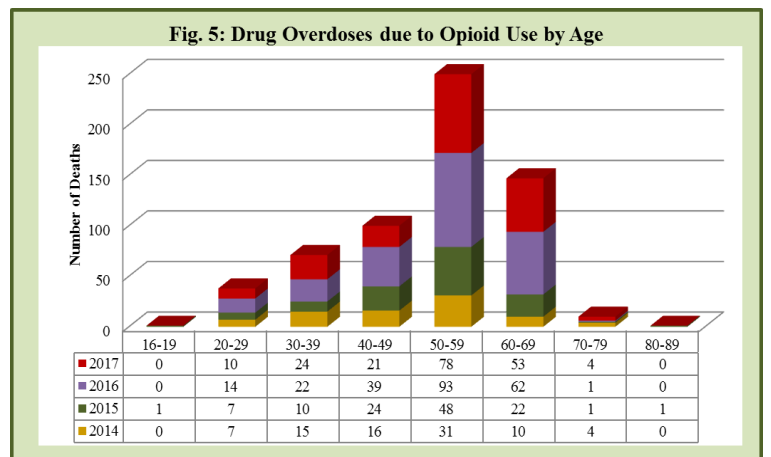
There were **199** prescription opioids found in the 618 drug overdoses between January 2014 and August 2017. Despite the downward trend in the number of fatal overdoses related to prescription opioids between 2014 and 2015, the number of fatal overdoses involving prescription opioids in 2016 (n=63) was higher than the number of fatal overdoses involving prescription opioids over the past two years (2014, n=45) and (2015, n=29). This trend appears to be continuing in 2017 (n=62).



Demographics¹

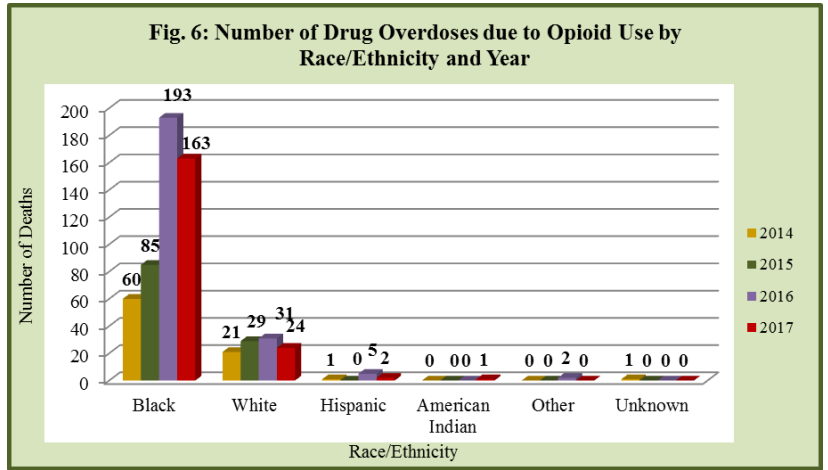
Age

Approximately **80%** of all overdoses due to opioid drug use happen among adults between the ages of 40-69 years old. Deaths due to opioid use were most prevalent among people ages 50 to 59 (n=40%). There were no deaths from the use of opioids among people younger than 16 or older than 89.



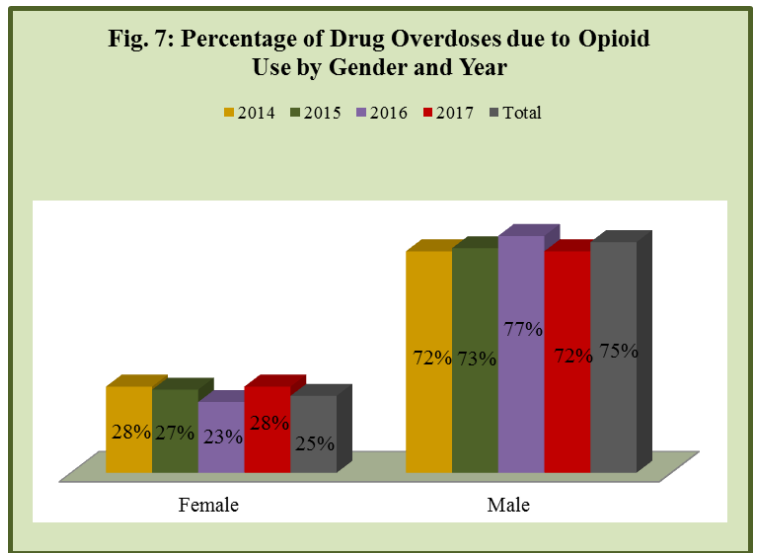
Race/Ethnicity

Overall, **501** or **81%** of all deaths due to opioid use were among Blacks. This trend remains when across years. Deaths among Blacks increased 127% from 2015 to 2016.



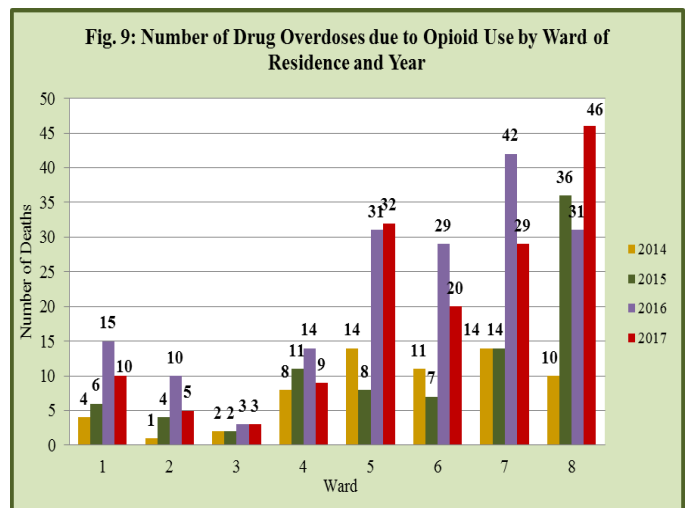
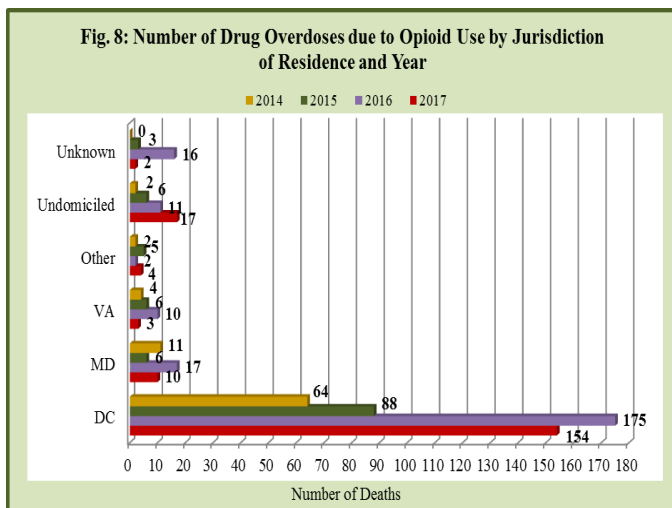
Gender

Fatal overdoses due to opioid drug use were more common among **males**.



Jurisdiction of Residence¹

From 2014 to 2017, opioid-related fatal overdoses were most prevalent in **Wards 7 & 8** (n=222). However, there are variations across years. For example, opioid-related fatal overdoses were most prevalent in Wards 7 and 8 in 2015 yet Wards 5 and 7 in 2014. In 2016, opioid-related overdoses were most prevalent in **Ward 7**.



The graphs below depict the total number of heroin, morphine, fentanyl, and fentanyl analogs that contributed to overdose deaths by Ward of Residence. Each drug is counted independently in fatalities involving more than one of these drugs. The total number of opioids found in fatal overdoses increased between 2014 and 2015. Overall, in the District, there were a total of **64** counts of heroin, morphine, and fentanyl that contributed to fatal overdoses in 2014. In 2015, the number of opioids that contributed to a fatal overdose in the District increased to a total of **100** opioids (heroin, morphine, fentanyl, and acetyl fentanyl). There were zero cases of fentanyl analogs in 2014.⁴ Nine of the twelve cases of acetyl fentanyl found in 2015 were among decedents that were residents of the District. In 2016, there were a total of **247** illicit opioids (heroin, morphine, fentanyl, furanyl-fentanyl despropionyl-fentanyl, p-fluoroisobutyryl-fentanyl) identified. Although, there are zero cases of acetyl fentanyl in 2016, new, equally potent, fentanyl analogs have emerged. In 2017 to date, there have been a total of **247** illicit opioids contributing to drug overdoses. In addition, U-47700 and carfentanil were identified, as well as acetyl fentanyl has reemerged.

Fig. 10: Total Number of Heroin, Morphine, Fentanyl and Acetyl Fentanyl Drugs Contributing to Death, 2014

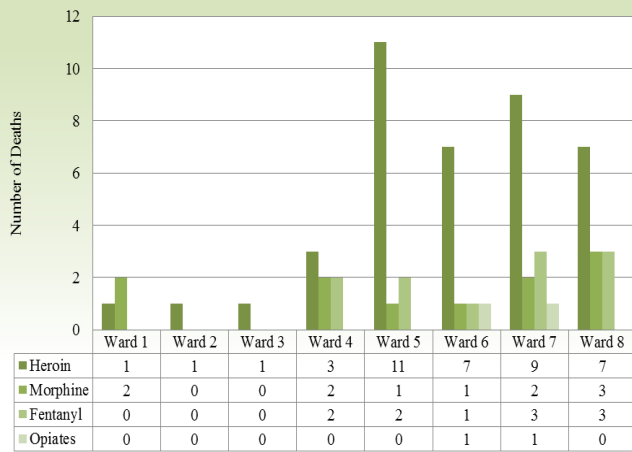


Fig. 11: Total Number of Heroin, Morphine, Fentanyl and Acetyl Fentanyl Drugs Contributing to Death, 2015

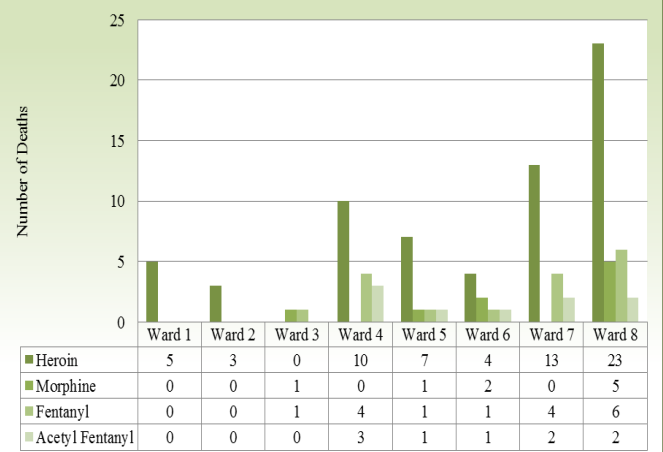


Fig. 12: Total Number of Heroin, Morphine, Fentanyl, Furanyl-Fentanyl an Despropionyl-Fentanyl Drugs Contributing to Death, 2016

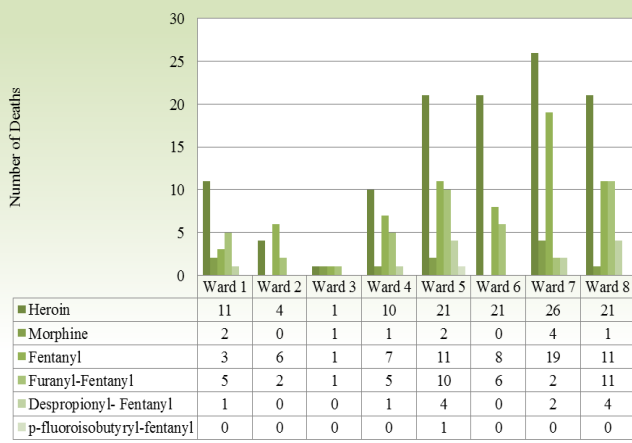
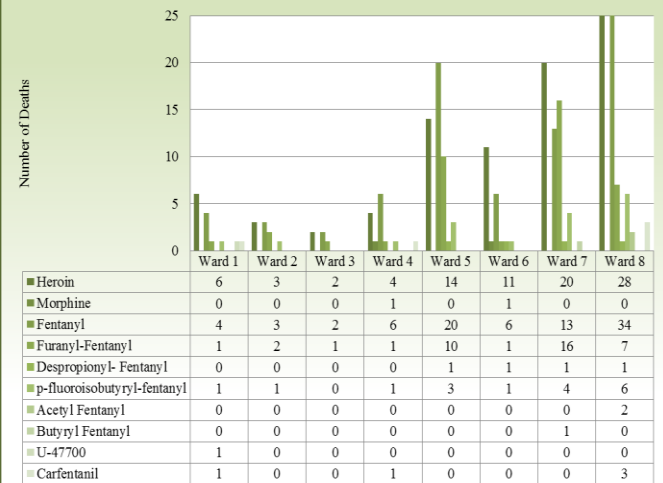


Fig. 13: Total Number of Heroin, Morphine, Fentanyl, Furanyl-Fentanyl, and Despropionyl-Fentanyl Drugs Contributing to Death, 2017



⁴ OCME began screening for fentanyl analogs in 2015.

