

Press Release

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SAFE Glen Cove Coalition: NIDA Study –Drug Overdose Suicides Increased Among Black Women, Youth and Elderly Despite Overall Downward Trend

A recent study led by investigators at the National Institute on Drug Abuse (NIDA), part of the National Institutes of Health, investigated intentional overdose deaths, or suicides by an overdose of a medication or drug. Even though the US has seen an overall decline in recent years there has been an increase in non-Hispanic Black women, young people aged 15-24, and older people aged 75-84. The study also found that women were consistently more likely than men to die from intentional drug overdoses, with the highest rates observed in women ages 45 to 64. In addition, factors such as time of year, length of day, and day of the week appeared to be associated with intentional overdose death rates.

Nearly 92,000 people died from drug overdoses overall in the U.S. in 2020. This represents the largest increase ever recorded in a calendar year and reflects a nearly five-fold increase in the rate of overdose deaths since 1999. About 5% to 7% of these overdose deaths are recorded as intentional. Because it can be difficult to determine whether overdose deaths are intentional, the actual numbers are likely even higher. Many people who have a substance use disorder (SUD) also develop other mental illnesses, such as mood and anxiety disorders, which are independently associated with increased suicide risk. In addition, many people who are diagnosed with other mental illnesses are often diagnosed with a substance use disorder, emphasizing the need to address co-occurring mental health conditions holistically.

According to NIDA, the distinction between accidental and intentional overdose has important clinical implications and strategies must be implemented for preventing both. This requires screening for suicidality among individuals who use opioids or other drugs, and that treatment and support is provided both for mental illnesses and for substance use disorders.

Not much is known about who is most at risk of suicide by drug overdose and whether this has changed in recent years. The current study addresses this gap by analyzing data from 2001 to 2019 from the Centers for Disease Control and Prevention’s National Vital Statistics System, which provides data on multiple causes-of-death (including drug overdose death) based on death certificates for U.S. residents.

The NIDA researchers focused on data related to overdose deaths that were classified as intentional. They analyzed these by sex, age, and race/ethnicity, as well as by the month of the year and day of the week when the overdose occurred, to understand the characteristics of these factors. In this study, deaths were reported per 100,000 people to allow for consistent comparisons as the population changed over time.

Despite the steep increase in overdose deaths broadly, the study found that intentional overdose deaths in general have declined in recent years, decreasing among women between 2015-2019 (from 1.7 to 1.5 per 100,000 people), and among men between 2012-2019 (from 1.6 to 1.2 per 100,000 people). Intentional overdose rates generally were higher in women than in men. In each year analyzed, women ages 45 to 64 had the highest rates of intentional overdoses.

However, the investigators also found that age-adjusted intentional drug overdose deaths continued to rise in certain population subgroups. Notably, the rates increased among:

- young men ages 15 to 24 (from 0.6 per 100,000 people in 2015 to 0.8 in 2019)
- young women ages 15 to 24 (from 0.6 per 100,000 people in 2014 to 1.0 in 2019)
- older men ages 75 to 84 (from 0.7 per 100,000 people in 2001 to 1.6 in 2019)
- older women ages 75 to 84 (from 0.8 per 100,000 people in 2001 to 1.7 in 2019), and
- non-Hispanic Black women (from 0.4 per 100,000 people in 2013 to 0.7 in 2019)

The researchers also investigated when overdose deaths were most likely to occur in terms of both days of the week and months of the year. They found that intentional overdose rates were highest on Mondays and lowest on weekends (Friday to Sunday). The researchers pointed out that social factors, such as increased social interactions over the weekend or a reluctance to begin the work week, may contribute to the variability.

Intentional overdose rates also varied by month, with lowest rates noted in December and highest rates in late spring and summer. These findings align with previous observations of seasonal variations in suicide risk. The researchers maintain some theories that may help explain this pattern, noting that both social and biological factors may play a role in these fluctuations. For instance, low rates in December may be related to a more positive and hopeful mood during the holiday season. Furthermore, they noted that the increase in intentional overdose risk with longer daylight hours in May through August may be related to seasonal changes in the availability of molecules called mu opioid receptors in the brain. These opioid receptors influence mood and behaviors and are targets of opioid drugs, the most frequent substances identified in intentional overdose deaths.

NIDA is a component of the National Institutes of Health, U.S. Department of Health and Human Services and supports most of the world's research on the health aspects of drug use and addiction. For more information about NIDA and its programs, visit www.nida.nih.gov.

The SAFE Glen Cove Coalition is conducting an opioid prevention awareness campaign entitled. "Keeping Glen Cove SAFE," in order to educate and update the community regarding opioid use and its negative consequences. To learn more about the SAFE Glen Cove Coalition please follow us on

www.facebook.com/safeglencovecoalition or visit SAFE's website to learn more about the Opioid Epidemic at www.safeglencove.org.