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A Lethal Crisis: How Is Fentanyl Impacting Homeless Communities?

November 28, 2023

HIGHLIGHTS II OOOO

In March 2023, the Secretary of the Department of Homeland Security described fentanyl as "the single greatest challenge we face as a country."



Paramedics attempt to treat a man in cardiac arrest from an apparent drug overdose in the Skid Row neighborhood of Los Angeles, California, in April 2023. (AP Photo/Damian Dovarganes)

Executive Summary

Opioids are powerful pain-relieving chemicals that can also produce feelings of euphoria, making them prone to misuse and addiction. In the late 1990s, the number of prescriptions for opioid medications, particularly OxyContin, skyrocketed and a wave of fatal overdoses quickly followed. In 2010, a second wave of the opioid crisis emerged, driven by fatal overdoses involving heroin, a natural opioid with pain-relieving and euphoria-inducing effects similar to OxyContin. In 2013, illicit drug manufacturers began mixing synthetic opioids such as fentanyl rind heroin, cocaine, counterfeit pills, and other illegal drugs. With a potency 50 times stronger than heroin and 100 times stronger than morphine, fentanyl has propelled the most lethal wave of the United States' ongoing opioid crisis. By 2021, opioids were involved in 80,411 overdose deaths (75.4% of all overdose deaths recorded), 88% of which specifically involved synthetic opioids.

Geographically, Northeast and Appalachian states have been at the epicenter of the crisis, but fentanyl-related deaths have sharply risen on the West Coast since 2016. In California, for example, fatal overdoses involving fentanyl rose from 1,603 deaths in 2019 to 6,095 in 2022. [1]

The pace has been particularly alarming in Los Angeles (LA) County, where fentanyl overdose deaths increased 1.280% from 2016 to 2021. [2]

The fentanyl epidemic impacts all demographic and socioeconomic groups, but its effects are not distributed evenly. Fentanyl-related deaths are disproportionately high among men, who accounted for 73% of fatal fentanyl overdoses in 2020, and mortality rates are also high among low-income communities and people experiencing homelessness. [3]

In LA County, an estimated 75,518 people experience homelessness on any given night, and the unhoused population has been hit especially hard by the fentanyl epidemic. ^[4] In 2020 and 2021, more people experiencing homelessness died from a drug overdose than in the six previous years combined, according to the LA County Department of Health. ^[5] In Skid Row, a downtown Los Angeles neighborhood known as the center of the city's homelessness crisis, fentanyl fueled an eleven-fold increase in fatal overdoses from 2017 to 2022. ^[6]

Local and federal leaders have scrambled to slow the crisis as fentanyl continues claiming lives at a shocking pace. One of the most promising short-term strategies involves distributing testing strips that can detect fentanyl in drug samples, and Narcan, a naloxone nasal spray that can reverse an opioid overdose. [7]

In recent years, states like California have established initiatives to distribute naloxone and test strips in hopes of preventing overdose deaths, and the Biden Administration has called for increasing state-federal collaboration to support these programs. $^{[8][9]}$ Simultaneously, state and federal efforts are underway to disrupt fentanyl distribution networks by cracking down on criminal financial networks, seizing fentanyl from traffickers trying to smuggle drugs into the United States, and imposing harsher criminal penalties on drug dealers. $^{[10]}$

While it's too early to tell how successful these measures will be, state and federal leaders clearly view the fentanyl epidemic as an urgent national crisis. In March 2023, the Secretary of the Department of Homeland Security described fentanyl as "the single greatest challenge we face as a country." [11] As opioid overdoses kill more than 1,500 people in the U.S. each week, this report aims to understand the causes of the fentanyl epidemic and its impact on people experiencing homelessness, the conditions that have made it so lethal, and whether government measures to contain the crisis will be enough. [12]

The Opioid Crisis in Three Waves

Opioids are powerful pain-relieving chemicals that can also produce feelings of euphoria, making them addictive. [13] This class of chemicals includes natural opioids like heroin as well as prescription opioids, such as oxycodone and morphine. High rates of misuse and addiction throughout the twentieth century prompted significant regulations on prescription opioids, and for decades, physicians rarely prescribed

opiolas except to manage severe pain related to cancer, palliative care, and surgery.

The First Wave

After the Food and Drug Administration approved OxyContin in 1995, fatal overdoses involving prescription opioids began climbing, ^[16] OxyContin is an opioid medication that releases pain-relieving and euphoria-inducing chemicals over an extended period. ^[17] The drug's manufacturer, Purdue Pharma, touted the extended-release formulation to aggressively and fraudulently promote OxyContin as less addictive than other opioids, claiming it was safe for treating a broad range of conditions, ^[18] ^[19]

From 1997 to 2005, physicians increasingly prescribed opioids, particularly OxyContin, to treat common issues such as headaches and sprained ankles, and opioid prescriptions grew 533%. [20][21][22] Highly potent opioids quickly became widely accessible, including to those without a prescription, and nonmedical opioid use, opioid addiction, and fatal overdoses skyrocketed. [23] The crisis was primarily concentrated in the Northeast and Appalachia, [24] but emergency department visits related to prescription opioids soared nationwide, [25] [26] and from 2000 to 2014, rates of prescription opioid-related deaths grew from 1.5 to 5.9 deaths per 100,000 population. [27]

The Second Wave

As prescription opioid addiction took hold in the U.S., heroin was becoming increasingly available, pure, and cheap. [28] Heroin is a natural opioid that produces similar effects to prescription opioids like OxyContin. Rates of heroin use started growing across all groups nationwide around 2007, but the opioid crisis presented a unique opportunity for traffickers to expand heroin markets to cities and small towns where they had previously not worked, drawing in opioid users with heroin's "comparatively low price." [29]

Fatal heroin overdoses surged from 3,036 deaths in 2010 to 10,574 in 2014, marking the onset of a second wave of the opioid crisis. [30]

Already high mortality rates in Appalachia and the Northeast grew higher, but the wave of heroin overdose deaths hit urban areas especially hard, [31] disproportionately impacting Black men and those aged 20 to 34. [32]

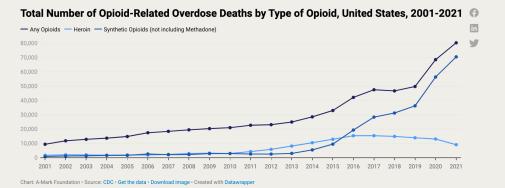
The Third Wave

Around 2013, the opioid crisis evolved again as illicit drug makers began mixing synthetic opioids into counterfeit pills, heroin, and other drugs. [33] [34] From 2014 to 2015, the number of drugs that tested positive for fentanyl in law enforcement labs more than doubled, from 5,343 positive samples to 13,882. [35]

Synthetic opioids, such as fentanyl, are created in laboratories and replicate the effects of natural opioids with greater potency. [36] Fentanyl can be up to 50 times stronger than heroin and 100 times stronger than morphine, and it can be a valuable prescription drug in clinical settings as an anesthetic or for patients with extreme pain. [37] [38] However, fentanyl is relatively easy to produce in illicit labs and mix into other drugs, where its potency varies and as little as two milligrams can be lethal. [39]



The proliferation of fentanyl is the defining feature of the third, most lethal wave of the opioid epidemic, and it largely fueled the surge of fatal drug overdoses from 13.8 per 100,000 in 2013 to 21.6 in 2019. During the COVID-19 pandemic, the fentanyl epidemic worsened. In 2019, opioids were involved in 49,860 overdose deaths (70.6% of all overdose deaths recorded), and 73% of these opioid-related deaths specifically involved synthetic opioids. By 2021, [41] opioids were involved in 80,411 overdose deaths (75.4% of all overdose deaths recorded), 88% of which specifically involved synthetic opioids. [42]



Available in liquid and powder forms, illicit fentanyl can be easily mixed into drugs like heroin, methamphetamines, and counterfeit pills. Fentanyl is cheaper to produce than heroin, [⁴³] and its higher potency increases profitability: an equivalent dose of fentanyl is as little as "1/300 or 1/400 of the wholesale price of heroin." Often, illicit fentanyl is labeled and sold as heroin, and people who use drugs may be unaware that their drugs contain fentanyl. [⁴⁴] Most illicit fentanyl in the United States is smuggled into the country from Mexico, [⁴⁵] where cartels manufacture fentanyl products using ingredients and equipment imported from China. [⁴⁶] However, powder fentanyl, ingredients, and equipment are also increasingly available for purchase online, often from Mexican or Chinese labs, which are distributed within the U.S. through mail carriers. [⁴⁷]

Regardless of the method, fentanyl trafficking has increased substantially in the past decade. The number of fentanyl trafficking offenders rose from nine in fiscal year (FY) 2014 to 433 in FY 2018, to 2,366 in FY 2022. [48][49]



Chart: A-Mark Foundation • Source: United States Sentencing Commission, "Quick Facts Fentanyl Trafficking Offenses," 2108 and 2022 • Get the data • Download image • Created with Datawrapper

The U.S. has implemented strategies to thwart synthetic opioid trafficking into the country, such as providing \$3.5 billion in security and counternarcotics aid to Mexico from 2008 to 2021, and sanctioning companies in Mexico and China for enabling the production of fentanyl-laced pills in May 2023. [50][51] Nonetheless, fentanyl remains pervasive in the U.S., and new drugs derived from fentanyl, called analogs, continue to emerge, such as carfentanil, remifentanil, and sufentanil, [52][53]

As illicit fentanyl products flood the drug supply, users are increasingly and often unwittingly exposed to fentanyl and therefore vulnerable to overdosing. According to a 2017 survey of heroin and prescription opioid users, more than three-quarters of respondents suspected that their drugs had been laced with fentanyl without their knowledge at some point in the prior six months. [54]

However, the ongoing fentanyl crisis is also propelled by demand. Frequent opioid users can develop tolerance to a dose and require increasingly strong doses to experience the same high. Fentanyl's potency makes it dangerous but also gives the drug a more intense "rush" than other opioids, and some users enthusiastically describe fentanyl as "bringing back an opioid euphoria lost to tolerance." [56] Even if inadvertently used, fentanyl can cause users to develop a higher opioid tolerance that heroin alone can no longer satisfy. [56][57]

The short duration of its effects compounds fentanyl's addictive qualities. While fentanyl's initial "rush" is powerful, the resulting opioid euphoria is short-lived compared to other opioids, ^[58] often lasting "only 30 to 60 min for an intravenous injection, compared to 4-5h for heroin." ^[59]

Consequently, maintaining a fentanyl high and avoiding withdrawal requires frequent use, thereby increasing the risk of exposure to a lethal dose. $^{[60]}$ Ultimately, over 150 people die from overdoses involving synthetic opioids each day, $^{[61]}$ and in 2022 alone, the DEA seized over 379 million doses of fentanyl, enough to kill every American. $^{[62]}$

Demographics of the fentanyl epidemic

Before the proliferation of illicit fentanyl around 2013, the difference between fentanyl-related overdose deaths in men versus women was marginal. However, the gap rapidly widened, and men have accounted for more than 70% of synthetic opioid-related fatal overdoses each year since 2016, primarily from fentanyl. [63]

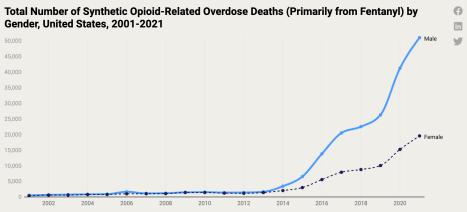


Chart: A-Mark Foundation • Source: National Institute on Drug Abuse • Get the data • Download image • Created with Datawrappe

The fentanyl epidemic has also fueled a rapid increase in drug overdose deaths among Black Americans, particularly Black men. ^[64]
Between 2015 and 2020, the drug overdose death rate tripled among Black men, rising from 17.3 per 100,000 in 2015 to 54.1 in 2020. ^[66] For synthetic opioid overdose deaths specifically, the rate increased from 2.1 per 100,000 in 2015 to 24.1 in 2020. ^[66] In the same period, overdose fatalities rates more than doubled among Asian or Pacific Islander men (4.0 to 8.5), Hispanic men (10.9 to 27.3), and American Indian or Alaska Native men (25.8 to 52.1). ^[67] Drug overdose death rates also increased among white men in that period, rising from 26.2 to 44.2. ^[68] Increases in synthetic opioid-related deaths specifically increased as highlighted in the chart below.

Synthetic Opioid-Related Overdose Death Rates (Primarily from Fentanyl) by Race or Ethnicity, (7) United States, 2011-2021

in

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in

Synthetic opioid-related overdose deaths (primarily from fentanyl) per 100,000 of the population.

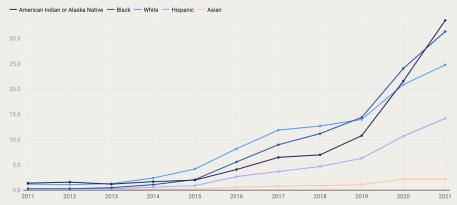


Chart: A-Mark Foundation • Source: National Institute on Drug Abuse • Get the data • Download image • Created with Datas

Geography of the fentanyl epidemic

The Northeast and Appalachia remain the epicenters of the opioid crisis. In 2021, the states with the highest rates of drug overdose deathsinvolving opioids were primarily clustered in the Northeast and Appalachian states, including West Virginia (77.2 per 100,000 population), Delaware (48.1), Tennessee (45.5), Kentucky (44.8) and Maine (42.4). In the same year, the rate in D.C. was 48.9. [69]

By comparison, in 2011, the rate of deaths involving opioids in those states were 31.5 per 100,000 population in West Virginia, 12.6 in Delaware, 10.1 in Tennessee, 15.8 in Kentucky and 6.7 in Maine. The rate in D.C. was 8.0. $^{[70]}\,$

The lowest rates of drug overdose deaths involving opioids in 2021 occurred in South Dakota (5.7 per 100,000 population), Nebraska (6.0) and $Hawaii \ (6.1). \ ^{[71]} In 2011, the lowest rates were in Louisiana \ (2.5), Nebraska \ (2.8) and Mississippi \ (2.9). \ ^{[72]} Only in Oklahoma and Utah have the$ rates decreased between 2011 and 2021; 13.0 per 100,000 population to 12.1 and 14.6 to 14.1 respectively. [73]

Opioid Overdose Death Rates, United States, 2011 and 2021

Opioid overdose death rates per 100,000 population by state, including D.C. and the U.S. as a whole.

Data can be sorted numerically or alphabetically by clicking on the column headers.

North Dakota

Location	2011	2021
United States	7.3	24.7
	3.8	21.2
Alabama		27.6
Alaska	8.7	
Arizona	8.8	28.8
Arkansas	6.2	13.7
California	5.0	17.8
Colorado	8.0	21.7
Connecticut	6.0	38.3
Delaware	12.6	48.1
D.C.	8.0	48.9
Florida	8.4	28.9
Georgia	5.4	17.1
Hawaii	5.4	6.1
Idaho	5.1	12.8
Illinois	7.1	23.7
Indiana	5.6	34.2
lowa	5.9	8.6
Kansas	4.3	15.7
Kentucky	15.8	44.8
Louisiana	2.5	30.5
Maine	6.7	42.4
Maryland	9.1	38.5
Massachusetts	9.9	32.5
Michigan	7.5	26.0
Minnesota	5.3	17.9
Mississippi	2.9	20.3
Missouri	10.2	27.1
Montana	6.8	11.1
Nebraska	2.8	6.0
Nevada	16.5	18.9
New Hampshire	11.5	28.4
New Jersey	5.1	28.6
New Mexico	11.9	37.2
New York	6.8	24.5
North Carolina	8.6	33.3

No data

Ohio	11.2	40.1
Oklahoma	13.0	12.1
Oregon	10.1	18.1
Pennsylvania	6.2	32.8
Rhode Island	13.3	35.9
South Carolina	5.3	35.0
South Dakota	4.5	5.7
Tennessee	10.1	45.5
Texas	4.6	9.4
Utah	14.6	14.1
Vermont	9.1	37.4
Virginia	7.1	26.0
Washington	9.9	20.5
West Virginia	31.5	77.2
Wisconsin	8.3	25.9
Wyoming	7.5	12.4

Table: A-Mark Foundation • Source: CDC Wonder via KFF • Get the data • Download image • Created with Datawrappe

The opioid crisis did not hit all of the U.S. simultaneously. Public health trends typically reach states such as Alaska and Hawaii later than the contiguous United States, and the opioid crisis was no exception. [74]

California's worsening fentanyl crisis

Although the epidemic remains concentrated in the Northeast and Appalachia, the fentanyl crisis began moving toward the West Coast after 2016. From 2019 onwards, fentanyl-related overdose deaths rose exponentially throughout California, increasing 365% from 2019 to 2021 and causing the state's total number of drug overdose deaths to nearly double.

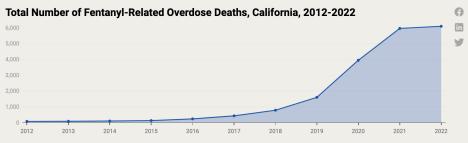


Chart: A-Mark Foundation • Source: California Overdose Surveillance Dashboard • Get the data • Download image • Created with Datawrappe

In the 12-month period ending May 2023, 62% of fatal drug overdoses in California involved synthetic opioids (excluding methadone). This percentage is lower than in 19 of the 20 Northeastern and Appalachian states with data available, where the average percentage is 79%. [78] However, due to the population size of the state, the total number of overdose deaths involving synthetic opioids (excluding methadone) in California, was greater than that of New York, Massachusetts and Maryland combined. [79]

In California, northern, coastal parts of the state face disproportionately high rates of fatal overdoses involving fentanyl, but in terms of overall number of deaths, the fentanyl crisis is largely concentrated in large urban areas. [80] The pace of fentanyl overdoses has been particularly alarming in Los Angeles (L.A.) County, where fentanyl overdose deaths increased 1,280% from 109 deaths in 2016 to 1,504 in 2021. [81] In the same period, the proportion of fatal drug overdoses that involved fentanyl increased from 10% to 55%. [82]

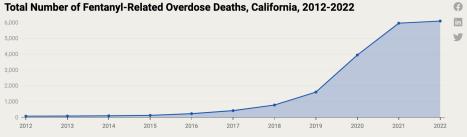


Chart: A-Mark Foundation • Source: California Overdose Surveillance Dashboard • Get the data • Download image • Created with Datawrappe

The fentanyl epidemic's impact on different demographic groups in L.A. County in 2021 was broadly consistent with national trends:

- Men account for most of L.A. County's fentanyl deaths, emergency room visits, and hospitalizations, and men die from fentanyl
 overdoses at a rate 3.9 times higher than women. [83]
- Adults aged 26-39 accounted for 42% of L.A. County's fatal overdoses involving fentanyl, and adults aged 40-64 comprised 38%. [84]
- The fentanyl overdose death rate for Black Angelenos (31.8 per 100,000 population) far exceeded that of their white (23.3) and Latino/a/x (11.5) counterparts, even though white and Latino/a/x people accounted for most overdose deaths. [85]
- In poorer areas, the rate of overdose deaths involving fentanyl was 39.6 per 100,000 population, compared to 12.4 in more affluent
 areas. [86]

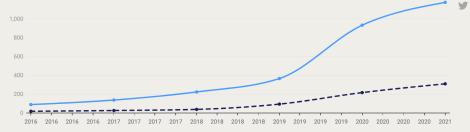


Chart: A-Mark Foundation • Source: County of Los Angeles Public Health • Get the data • Download image • Created with Datawrapper

Total Number of Fentanyl-Related Overdose Deaths by Age Group, LA County, 2016-2021

0 in

0

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in

Age	2016	2017	2018	2019	2020	2021	Total
17 & under	5	3	4	9	28	31	80
18-25	25	26	40	115	238	225	669
26-39	41	73	121	207	475	626	1,543
40-64	36	54	93	126	385	573	1,267
65+	2	9	5	5	23	49	93
Total	109	165	263	462	1,149	1,504	3,652

Table: A-Mark Foundation • Source: County of Los Angeles Public Health • Get the data • Download image • Created with Datawrapper

Total Number of Fentanyl-Related Overdose Deaths by Race or Ethnicity, LA County, 2016-2021

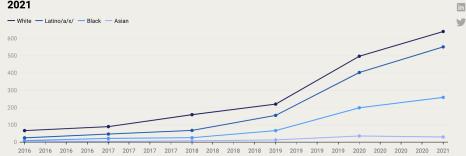


Chart: A-Mark Foundation • Source: County of Los Angeles Public Health • Get the data • Download image • Created with Datawrappe

The link between poverty and fentanyl overdose risk is not unique to Los Angeles. Nationwide, the fentanyl epidemic has disproportionately impacted lower-income communities and people experiencing homelessness. [87][88] However, Los Angeles County has struggled with a $homelessness\ crisis\ for\ decades, fueled\ by\ slow\ housing\ development, soaring\ rent\ prices, low\ wages, and\ insufficient\ public\ investments,$ among other factors, leading some to call Los Angeles the "homeless capital" of the United States." [89] As of 2023, an estimated 75,518 people experience homelessness on any given night in L.A. Country. [90]

The Fentanyl Epidemic and the Homelessness Crisis in Los Angeles

 $In general, people experiencing \ homelessness face a greater \ risk of death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ face \ a \ greater \ risk \ of \ death \ and \ injury \ than \ the \ housed \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ 2018, \ homelessness \ population. \\ [91] Between 2016 \ and \ populatio$ the mortality rate for L.A. County's unhoused population was 2.3 times higher than that of the general population. [92] By 2020 and 2021, the $mortality\ rate\ for\ people\ experiencing\ homeless ness\ had\ grown\ to\ 3.8\ times\ greater\ than\ the\ general\ population.^{[93]}$

Drug overdoses accounted for more than one-third of all deaths among people experiencing homelessness in L.A. County from 2020 to 2021, $and unhoused individuals were 38.9\,times more likely to die of a drug overdose than the housed population. \\ ^{[94]} Fentanyl bears primary$ responsibility for rising mortality rates and overdose deaths, as fentanyl-related overdose deaths nearly tripled from 2019 to 2021 among L.A. County's unhoused population. [95]

In Skid Row, a downtown Los Angeles neighborhood long known as the center of the city's homelessness crisis, the fentanyl epidemic has been devastating. Fatal drug overdoses increased more than eleven-fold in Skid Row and nearby areas from 2017 to 2022, rising from 13 deaths to 148, and more than 70% of the deaths involved fentanyl. [96] According to one resident, fentanyl overdoses have "become the norm

Percentage of Overdose Deaths Among LA County's Unhoused Population Involving Specific Drug Types * 2018-2021

Methamphetamine — Heroin — Cocaine — Fentanyl — Other Opioids^

In 2021, 58.4% of overdose deaths among LA County's unhoused population involved fentanyl, compared to 12.5% in 2018.



* Percentages per year sum to more than 100% because each overdose can involve multiple drug types.

* Methadone, morphine, oxycodone, hydrocodone, oxymorphone, tramadol, codeine, opida, codeine, opida.

* Chart: A-Mark Foundation - Source: Los Anoeles Count Department of Public Health - Get the data - Download image - Created with Datawran

Mental health issues and substance use among L.A.'s unhoused population

The fentanyl epidemic's extreme impact on unhoused communities can be attributed, in part, to the higher prevalence of substance use disorders among people experiencing homelessness than the housed population. [198] In 2023, the Los Angeles Homeless Services authority reported that 30% of people experiencing homelessness have a substance use disorder. [199] but the prevalence may be higher. [100] In a 2021 survey published in the *Journal of Substance Use*, 63.7% of people experiencing homelessness in Skid Row admitted using drugs but did not necessarily have a substance use disorder. [101]

Unhoused individuals also suffer from mental health conditions at higher rates than the housed population, with as many as 51% of Los Angeles' unhoused population having a mental illness. [102] The very process of becoming homeless can be traumatic, and the daily stressors of homelessness, such as ensuring safety or securing food, can cause or worsen mental health conditions. [103] In places like Skid Row, where accessing mental health services can be difficult, past traumas and the psychological distress of experiencing homelessness lead some to use drugs to cope. [104] [105]

Isolation, marginalization, and poor access to resources

In April 2023, a woman in Skid Row called paramedics for a man in a nearby tent who was screaming for help, but paramedics refused to enter his tent. [106] The man's brother found him hours later not breathing, and although he administered Narcan, his brother did not wake up. [107] When coroner officials arrived, they suspected it could be a fentanyl overdose. [108]

It is unclear why paramedics did not help this man, but this case is not an anomaly. People experiencing homelessness face significant obstacles to receiving care. The problem is particularly acute in unhoused communities like Skid Row, where isolation from social and health services can make it less likely that someone will intervene in the event of an overdose. [109]

People experiencing homelessness are also less likely to be able to access Narcan, a naloxone nasal spray that can reverse an opioid overdose. Until recently, Narcan has required a prescription, making it difficult for unhoused individuals to obtain. [110] Although Narcan is now available to purchase at drug stores without a prescription, a package containing two doses costs \$44.99, [111] and severe overdoses may require multiple doses. [112] For many unhoused individuals, purchasing the overdose reversal agent is not an option.

Some people experiencing homelessness can obtain naloxone for free from nonprofits, community centers, and local health departments. However, these programs are often scantily funded, and getting enough naloxone to people experiencing homelessness can be challenging, as it often involves seeking out and directly distributing it to unhoused individuals. [113]

Although fentanyl test strips can be valuable tools to check drugs for fentanyl and prevent unintended exposure, they are often impractical and difficult to use for unhoused individuals. While test strips are generally highly accurate, people experiencing homelessness often do not have reliable access to clean water to administer the test, leaving them vulnerable to unintended fentanyl exposure. [114]

COVID-19 and the fentanyl epidemic

Fentanyl had already saturated the Los Angeles drug supply when the COVID-19 pandemic began, and fatal overdoses were surging. Measures that were intended to stop the spread of COVID-19 inadvertently compounded the isolation and stress that people experiencing homelessness already faced and may have contributed to higher rates of substance use. [116]

Shutdowns and mandatory quarantines likely created significant obstacles for those taking medications to treat a mental health condition or substance use disorder, placing them at greater risk of relapse or drug use. [116] Simultaneously, naloxone and test strip distribution slowed as fewer people were available to distribute it, community centers were forced to close doors, and mental health and addiction services were disrupted. [117]

The COVID-19 pandemic exacerbated the stressful conditions of homelessness and made the already difficult task of accessing services nearly impossible. Los Angeles County's thousands of unhoused residents were left even more vulnerable to the burgeoning fentanyl epidemic, and more people experiencing homelessness died from drug overdoses in 2020-2021 than the "six previous years combined." [118] While most pandemic-related restrictions and closures have eased, the fentanyl epidemic shows few signs of slowing.

Solutions

Given fentanyl's lethality and the epidemic's shocking growth, law enforcement, policymakers, and political leaders have been scrambling to slow down and prevent overdoses.

Considering that people experiencing homelessness in LA County were 38.9 more likely to die from a drug overdose than the housed population, any initiative that can improve access to health care, social services, and housing could be effective at slowing down overdose deaths among the unhoused. In Los Angeles, for example, the newly elected mayor has championed Inside Safe, a strategy that aims to help get people experiencing homelessness into housing and increase access to mental health and substance abuse treatment. [119] [120]

The strategy has so far struggled to make significant headway as bureaucratic rules and slow housing development create bottlenecks, but planned improvements to the program and expanded funding may help in the future. [121]

Ultimately, putting an end to the opioid crisis will likely require significant investments in affordable housing, health care, mental health services, and substance use treatment. [122] These structural changes typically happen slowly, if at all. In the meantime, large-scale Narcan distribution efforts could be a promising strategy to prevent opioid overdose deaths. The FDA-approved naloxone nasal spray is easy to administer, highly effective at reversing opioid overdoses, and can have an immediate impact. [123] According to a review of Massachusetts emergency medical services data from 2013 to 2015, 93.5% of those who overdosed on an opioid survived when given naloxone. [124]

Naloxone is often inaccessible to those at the highest risk of overdose, and the rising prevalence of drugs containing fentanyl and a veterinary tranquilizer called xylazine, or tranq, poses an additional challenge, [126] For some, xylazine is desirable because it reportedly prolongs fentanyl's euphoric effects and staves off withdrawal symptoms for longer. [126] However, xylazine can cause difficulty breathing, dangerously low blood pressure, sedation, and death, and since it is not an opioid, naloxone cannot reverse its effects. [127] In 2022, the DEA reported that 23% of lab-tested fentanyl powder samples and 7% of fentanyl pills seized contained xylazine. [128] With xylazine's increasing prevalence, public health experts worry that naloxone may be less effective in reversing overdoses. [129]

A less expensive strategy for preventing fatal overdoses involves distributing fentanyl test strips, which can accurately detect fentanyl in drug samples and are unlikely to produce false negatives. [130] Fentanyl test strips can be purchased for as little as \$1, and they are often given out freely at community centers, nonprofits, and health clinics. [131] As noted above, people experiencing homelessness may not be able to consistently use them. In addition, fentanyl test strips do not measure quantity or potency, and their detection threshold is very low, meaning a

drug that goes not contain tentanyi may test positive if it was packaged in the same area as a grug containing tentanyi. $strips also \ cannot \ detect \ xylazine, and \ while \ there \ are \ separate \ xylazine \ test \ strips, they \ are \ not \ yet \ widely \ available. \\ [133]$

The effectiveness of test strips is also diminished by the "chocolate chip cookie effect." To test a drug for fentanyl, a test strip is immersed for 15 seconds in a container with a small amount of the drug and half a teaspoon of water and then left to dry for two to five minutes. [134] If the drug $sample contains fentanyl, a pink line appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} When fentanyl is a pink line appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and two pink lines indicate a negative result. \cite{Mainequation} All the pink lines appears on the left side of the strip, and the pink lines appears on the left side of the pink lines appears on the left side of the strip, and the pink lines appears on the left side of the left s$ mixed into a drug, such as heroin or cocaine, the fentanyl is not evenly distributed. [136] In other words, one portion of a pill or bag of powder may contain a lethal amount of fentanyl, while another part contains none. To overcome the "chocolate chip cookie effect," drugs must be tested multiple times with samples from different portions of the product.



Still, making test strips and naloxone more accessible is imperative, and several state and local governments have created programs to do so. The California Department of Health Care Services created the Naloxone Distribution Project (NDP), which provides free naloxone to public health agencies, first responders, schools, homeless programs, community organizations, and other organizations. [137] Since 2018, the NDP has distributed more than three million naloxone kits across the state, and over 211,000 overdoses have been reversed. [138] In March 2023, California Governor Gavin Newsom announced a plan to allocate \$79 million to continue distributing naloxone, \$10 million for education and testing, and another \$4 million to distribute fentanyl test strips. [139]

At the federal level, the Biden Administration's National Drug Control Strategy calls for expanding harm reduction interventions like naloxone and fentanyl test strip distribution and boosting federal-state cooperation. [140] Simultaneously, the Strategy also prioritizes thwarting drug $trafficking \ and \ disrupting \ distribution \ networks \ with \ calls \ to \ crack \ down \ on \ criminal \ financial \ networks \ and \ increase \ funding \ for \ the \ DEA \ and$ U.S. Customs and Border Protection (CBP). [141] Biden reiterated his commitment to tackling the fentanyl crisis in November 2023 with plans to make treatment more accessible and focus on international cooperation, including a deal with China to curb the export of chemicals used to make fentanyl. [142]

"Fentanyl is... an issue that's hurting families in every state across the nation," Biden said in a speech. "It really is an American tragedy." [143]

Efforts to disrupt distribution networks have also been introduced at the state level. For example, Governor Gavin Newsom announced the expansion of California's National Guard's partnership with CBP to seize fentanyl at the U.S.-Mexico border and "develop informational analysis on organized criminal activity."[144]

Another controversial tactic involves charging drug dealers with murder for selling or providing fentanyl products to individuals who have fatally overdosed, and around 30 states now have statutes that allow prosecutors to charge someone with homicide for selling or providing a $lethal\ dose\ of\ fentanyl.^{[145]}\ This\ harshlaw\ enforcement\ approach\ is\ meant\ to\ punish\ drug\ dealers\ and\ deter\ others\ from\ using\ drugs,\ but$ public health experts worry that the strategy could make things much worse. [146]

Instead of dismantling distribution networks, harsh criminal penalties may likely only impact low-level dealers or users who share a dose with a friend.[147] Incarcerating these individuals can make it more difficult for people to recover from addiction: people in prison often still have $access to drugs, do not receive adequate addiction treatment, and once released, a criminal history will make it harder to find work. \\ ^{[148]}$ Further, fear of criminal charges could make it less likely that someone will report an overdose and receive potentially life-saving help. [149]

Conclusion

Nearly three decades after the first surge of prescription opioid overdose deaths, the United States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled in an opioid crisis. In the united States remains embroiled embroiled in the united States remains embroiled embroiled in the united States remains embroiled embroiled embroiled embroiled2021 alone, 80,411 people died from a drug overdose that involved an opioid. [150] Provisional data for 2022 put that number at 79,770; a 0.8% $decrease. \ ^{[151]} \ Illicitly \ manufactured \ synthetic \ opioids \ like \ fent anylare \ fueling \ the \ ongoing \ lethal \ phase \ of \ the \ opioid \ crisis. \ With \ a \ potency \ 50 \ to$ 100 times stronger than heroin or morphine, fentanyl is extremely addictive, and even small doses can be deadly. Although the fentanyl epidemic has spared no demographic or socioeconomic group, low income individuals and people experiencing homelessness face the highest risk of fatally overdosing.

Naloxone and fentanyl test strip distribution programs are imperative and can help thwart the unrelenting pace of fentanyl-related overdose deaths. However, fentanyl's devastating impacts in Los Angeles, particularly among people experiencing homelessness, make it clear that getting help to those who need it most is easier said than done.

This report aimed to investigate the causes of the fentanyl epidemic and the conditions that have made it so lethal. By looking at the market dynamics of fentanyl as it has saturated the drug supply, it appears that cracking down on fentanyl dealing may not be enough, and saving lives depends on addressing opioid addiction. Treating addiction and preventing opioid overdose deaths involves improving access to mental health and substance use treatment, but likely also requires substantial public investments in health care and affordable housing.

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