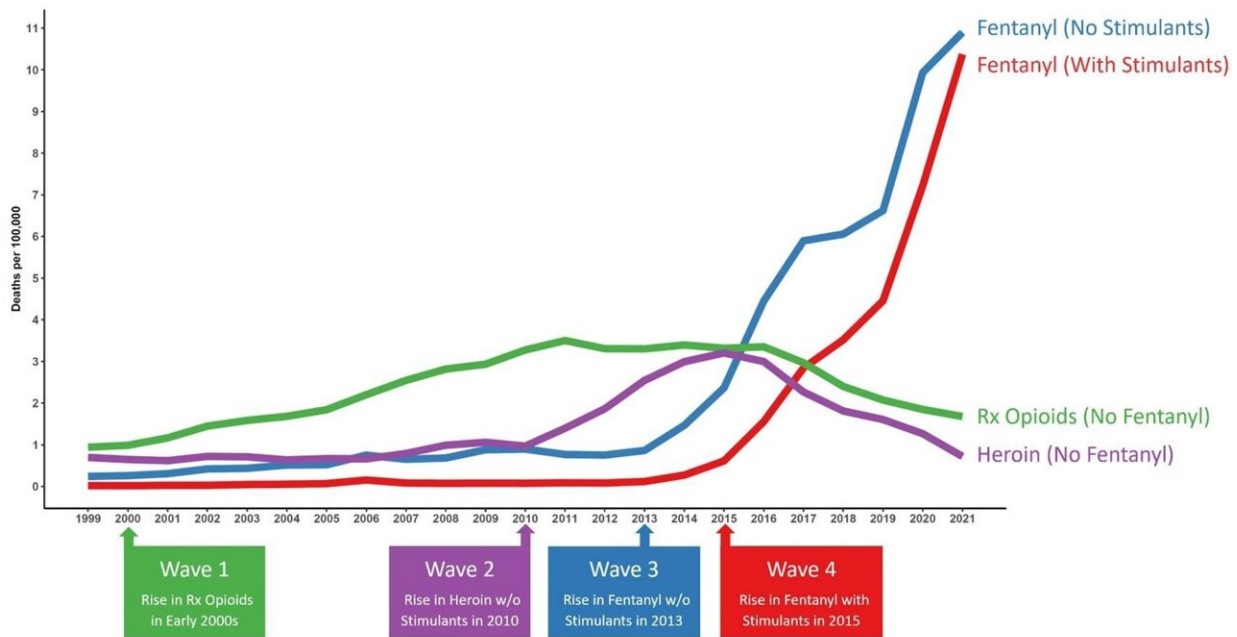


# Overdose deaths from fentanyl laced stimulants have risen 50-fold since 2010

September 14 2023



A simplified schema of the four waves of the US overdose mortality crisis. Waves 1 and 2 include deaths involving commonly prescribed opioids, and heroin, respectively, but excluding fentanyl co-involved deaths. Wave 3 and Wave 4 show fentanyl deaths not involving, and involving, stimulants respectively as distinct trends. Data from CDC WONDER. Credit: Friedman and Shover, 2023, doi: 10.1111/add.16318

New UCLA-led research has found that the proportion of US overdose deaths involving both fentanyl and stimulants has increased more than

50-fold since 2010, from 0.6% (235 deaths) in 2010 to 32.3% (34,429 deaths) in 2021.

By 2021, [stimulants](#) such as cocaine and methamphetamine had become the most common drug class found in fentanyl-involved overdoses in every US state. This rise in fentanyl/stimulant fatalities constitutes the "fourth wave" in the US's long-running opioid overdose crisis—the [death toll](#) of which continues to rise precipitously.

"We're now seeing that the use of fentanyl together with stimulants is rapidly becoming the dominant force in the US overdose crisis," said lead author Joseph Friedman, an addiction researcher at the David Geffen School of Medicine at UCLA.

"Fentanyl has ushered in a polysubstance overdose crisis, meaning that people are mixing fentanyl with other drugs, like stimulants, but also countless other synthetic substances. This poses many [health risks](#) and new challenges for health care providers. We have data and medical expertise about treating opioid use disorders, but comparatively little experience with the combination of opioids and stimulants together, or opioids mixed with other drugs. This makes it hard to stabilize people medically who are withdrawing from polysubstance use."

The findings are [published](#) in *Addiction*.

The analysis illustrates how the US opioid crisis began with an increase in deaths from prescription opioids (wave 1) in the early 2000s and heroin (wave 2) in 2010. Around 2013, an increase in fentanyl overdoses signaled the third wave. The fourth wave—fentanyl overdoses with stimulants—began in 2015 and continues to grow.

Further complicating matters is that people consuming multiple substances may also be at increased risk of overdose, and many

substances being mixed with fentanyl are not responsive to naloxone, the antidote to an [opioid overdose](#).

The authors also found that fentanyl/stimulant overdose deaths disproportionately affect racial/ethnic minority communities in the US, including Black and African American people and Native American people. For instance, in 2021, the prevalence of stimulant involvement in fentanyl [overdose](#) deaths was 73% among 65 to 74-year-old Non-Hispanic Black or African American women living in the western US and 69% among 55 to 65-year-old Black or African American men living in the same area. The rate among the general US population in 2021 was 49%.

There are also geographical patterns to fentanyl/[stimulant](#) use. In the northeast US, [fentanyl](#) tends to be combined with cocaine; in the southern and western US, it appears most commonly with methamphetamine.

"We suspect this pattern reflects the rising availability of, and preference for, low-cost, high-purity methamphetamine throughout the US, and the fact that the Northeast has a well-entrenched pattern of illicit cocaine use that has so far resisted the complete takeover by methamphetamine seen elsewhere in the country," Friedman said.

**More information:** Charting the fourth wave: Geographic, temporal, race/ethnicity and demographic trends in polysubstance fentanyl overdose deaths in the United States, 2010–2021, *Addiction* (2023).

[DOI: 10.1111/add.16318](https://doi.org/10.1111/add.16318)

[onlinelibrary.wiley.com/doi/10.1111/add.16318](https://onlinelibrary.wiley.com/doi/10.1111/add.16318)

Provided by University of California, Los Angeles

Citation: Overdose deaths from fentanyl laced stimulants have risen 50-fold since 2010 (2023, September 14) retrieved 12 May 2024 from <https://medicalxpress.com/news/2023-09-overdose-deaths-fentanyl-laced-risen.html>

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