Emerging Drug Threats
New York

New York StateWide Senior Action Council

April 2023

Prepared by
The National Emerging Threats Initiative
John L. Eadie, Public Health and PDMP Project Coordinator
Overdose Deaths
Rate per 100,000
Year Ending
December 2015

Overdose Deaths
Rate per 100,000
Year Ending
December 2016

Overdose Deaths
Rate per 100,000
Year Ending
December 2017

Overdose Deaths
Rate per 100,000
Year Ending
December 2018

Overdose Deaths
Rate per 100,000 Year Ending December 2019

Overdose Deaths
Rate per 100,000
Year Ending
December 2020

Centers for Disease Control and Prevention.
Provisional drug overdose death counts. 2021.
Overdose Deaths
Rate per 100,000
Year Ending
December 2021

This figure represents the final drug overdose death rate for the years 1999 through 2020 and the provisional death rate for 2021.

Data sources: National Vital Statistics System, Final and Provisional Mortality on CDC WONDER Online Database. From the Final (1999 – 2020) and Provisional (2018-2021) Multiple Cause of Death Files.
This figure represents the final cocaine overdose death rate for the years 1999 through 2020 and the provisional death rate for 2021.

Data sources: National Vital Statistics System, Final and Provisional Mortality on CDC WONDER Online Database. From the Final (1999 – 2020) and Provisional (2018-2021) Multiple Cause of Death Files.
This figure represents the final psychostimulant overdose death rate for the years 1999 through 2020 and the provisional death rate for 2021.

Data sources: National Vital Statistics System, Final and Provisional Mortality on CDC WONDER Online Database. From the Final (1999 – 2020) and Provisional (2018-2021) Multiple Cause of Death Files.
U.S. Heroin Overdose Death Rate per 100,000

1999 - 2021

This figure represents the final heroin overdose death rate for the years 1999 through 2020 and the provisional death rate for 2021.

Data sources: National Vital Statistics System, Final and Provisional Mortality on CDC WONDER Online Database. From the Final (1999 – 2020) and Provisional (2018-2021) Multiple Cause of Death Files.
This figure represents the final fentanyl overdose death rate for the years 1999 through 2020 and the provisional death rate for 2021.

Data sources: National Vital Statistics System, Final and Provisional Mortality on CDC WONDER Online Database. From the Final (1999 – 2020) and Provisional (2018-2021) Multiple Cause of Death Files.
Fentanyl Involvement With Other Drugs

To what extent is Fentanyl involved with other Apex Drugs in Overdose Deaths?
Cocaine Overdose Deaths Co-occurring with Fentanyl by Year

1999 - 2021

This figure represents the final cocaine and co-occurring with fentanyl overdose death rates for the years 1999 through 2020 and the provisional death rate for 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
Psychostimulant Overdose Deaths Co-occurring with Fentanyl by Year

1999 - 2021

This figure represents the final psychostimulant and co-occurring with fentanyl overdose death rates for the years 1999 through 2020 and the provisional death rate for 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
Heroin Overdose Deaths Co-occurring with Fentanyl by Year

1999 - 2021

This figure represents the final heroin and co-occurring with fentanyl overdose death rates for the years 1999 through 2020 and the provisional death rate for 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
This figure represents the final fentanyl and co-occurring with cocaine, psychostimulant, and heroin death rates for the years 1999 through 2020 and the provisional death rate for 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
HIDTA Seizure Data

What are the current drug seizure trends?
High Intensity Drug Trafficking Area Counties as designated by the Office of National Drug Control Policy, 2022.

There are 33 HIDTAs, including approximately 22 percent of all counties, which account for 73 percent of the United States population. HIDTA-designated counties are located in all 50 states, Puerto Rico, the U.S. Virgin Islands, and the District of Columbia.
Cocaine Seizures by Quarter in Kilograms
2010 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Methamphetamine Seizures by Year in Kilograms
2010 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Methamphetamine Seizures by Quarter in Kilograms
2010 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Heroin Seizures by Year in Kilograms
2010 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023

Heroin Seizures by Quarter in Kilograms
2010 - 2022
Fentanyl Seizures by Quarter in Kilograms
2010 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Cocaine Percent Change in Total Seizures 2021 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Methamphetamine Percent Change in Total Seizures
2021 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Heroin Percent Change in Total Seizures
2021 - 2022

Pct Difference

- Negative
- Low
- Moderate
- High
Fentanyl Percent Change in Total Seizures
2021 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Relationship Between Drug Overdose Deaths and Drug Seizures
U.S. Cocaine Overdose Deaths and Seizures
Calendar Years 2010 - 2021

\[ r(10) = 0.93, \ p < 0.001 \]
U.S. Psychostimulant Overdose Deaths and Seizures
Calendar Years 2010 - 2021

\[ r(10) = .94, \quad p < .001 \]
U.S. Heroin Overdose Deaths and Seizures
Calendar Years 2010 - 2021

$r(10) = .65, p < .05$

Statistical test did not meet post hoc power expectations.
U.S. Fentanyl Overdose Deaths and Seizures
Calendar Years 2010 - 2021

$r(10) = .98, p < .001$

Log transformation performed to render Fentanyl death variable normal.
COVID-19 Impact on Drug Overdose Deaths & Drug Seizures

What happened to Drug Overdose Deaths and Drug Seizures by Law Enforcement when COVID-19 began?
January 2018 to December 2021 Overdose Deaths

COVID-19’s Impact on Overdose Deaths and Drug Seizures

- During the first quarter of 2020, the COVID-19 pandemic was declared by WHO.¹
- In the second quarter, overdose deaths surged.²
- Simultaneously, law enforcement seizures of stimulants declined as public contacts were restricted.³
- In subsequent quarters, the surge in overdose deaths slowed, while drug seizures increased.⁴

¹ https://www.cdc.gov/museum/timeline/covid19.html
² See previous slide, #59, in this presentation.
³ See slides 41, 43, 45 and 48 in this presentation.
⁴ See previous slide, #59, in this presentation
New York Drug Overdose Deaths
Provisional Drug Overdose Deaths Per 100,000 Population By State - 2021

This figure represents the provisional drug overdose death rate for the year ending December 31, 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
This figure represents the provisional cocaine overdose death rate for the year ending December 31, 2021.
Provisional Psychostimulant Overdose Deaths Per 100,000 Population By State - 2021

This figure represents the provisional psychostimulant overdose death rate for the year ending December 31, 2021.

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
Provisional Heroin Overdose Deaths Per 100,000 Population By State - 2021

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.

This figure represents the provisional heroin overdose death rate for the year ending December 31, 2021.
This figure represents the provisional fentanyl overdose death rate for the year ending December 31, 2021.
New York and U.S. Overdose Death Rate per 100,000
1999 - 2021

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
Average Annual Overdose Death Rate for New York Calendar Years 2011 - 2015

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
Average Annual Overdose Death Rate for New York
Calendar Years 2016 - 2020

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
New York Overdose Death Rate per 100,000 Rate Difference Between Period One & Period Two

Data source: National Vital Statistics System, Mortality 1999-2021 on CDC WONDER Online Database.
New York State
Law Enforcement
Drug Seizures
Cocaine Seizures for New York in Kilograms
2015 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
Fentanyl Seizures for New York in Kilograms
2015 - 2022

High Intensity Drug Trafficking Area Drug Seizure Data: March 3, 2023
John L. Eadie
National Emerging Threats Initiative (NETI)
3587 Parkway Lane
Norcross, Georgia 30092
(518) 429-6397
jeadie@pdmpneti.org