

Substance Use Involved Deaths in New Mexico

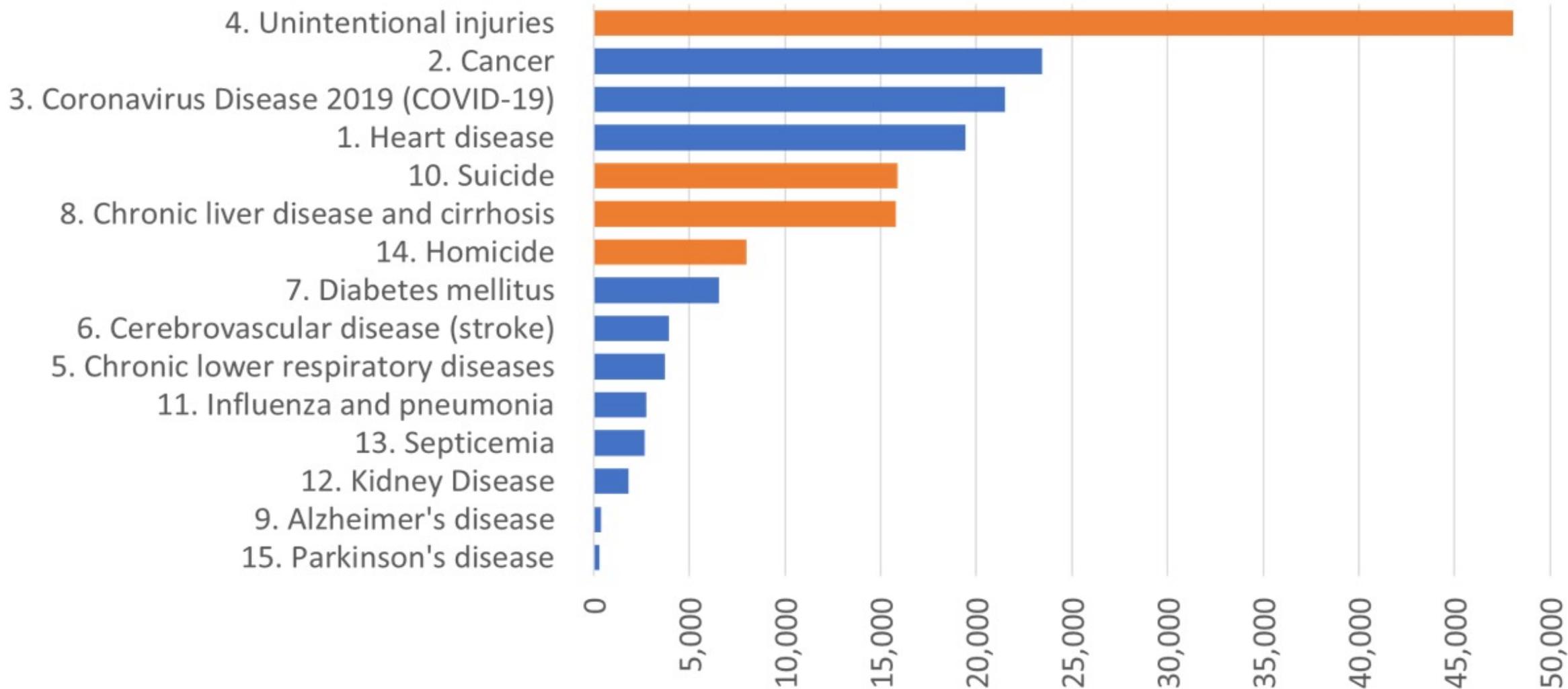


NMDOH Substance Use Epidemiology Section

- Hayley Peterson
- Alisha Campbell

OSAP Recipients Meeting - February 2022

Years of Potential Life Lost (before age 75) for 15 Leading Causes of Death, NM 2020



Emergency Department Syndromic Surveillance

Hayley Peterson

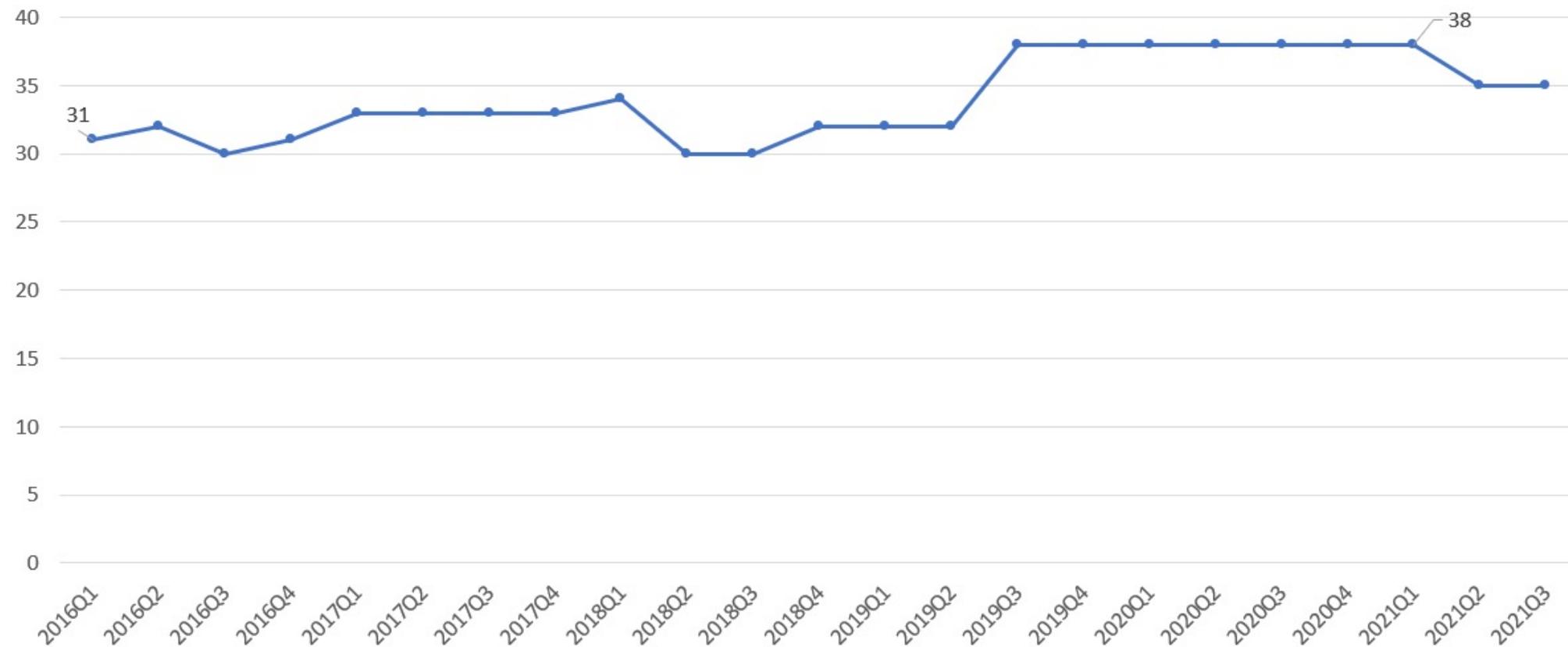
Drug Overdose Morbidity Epidemiologist

New Mexico Department of Health

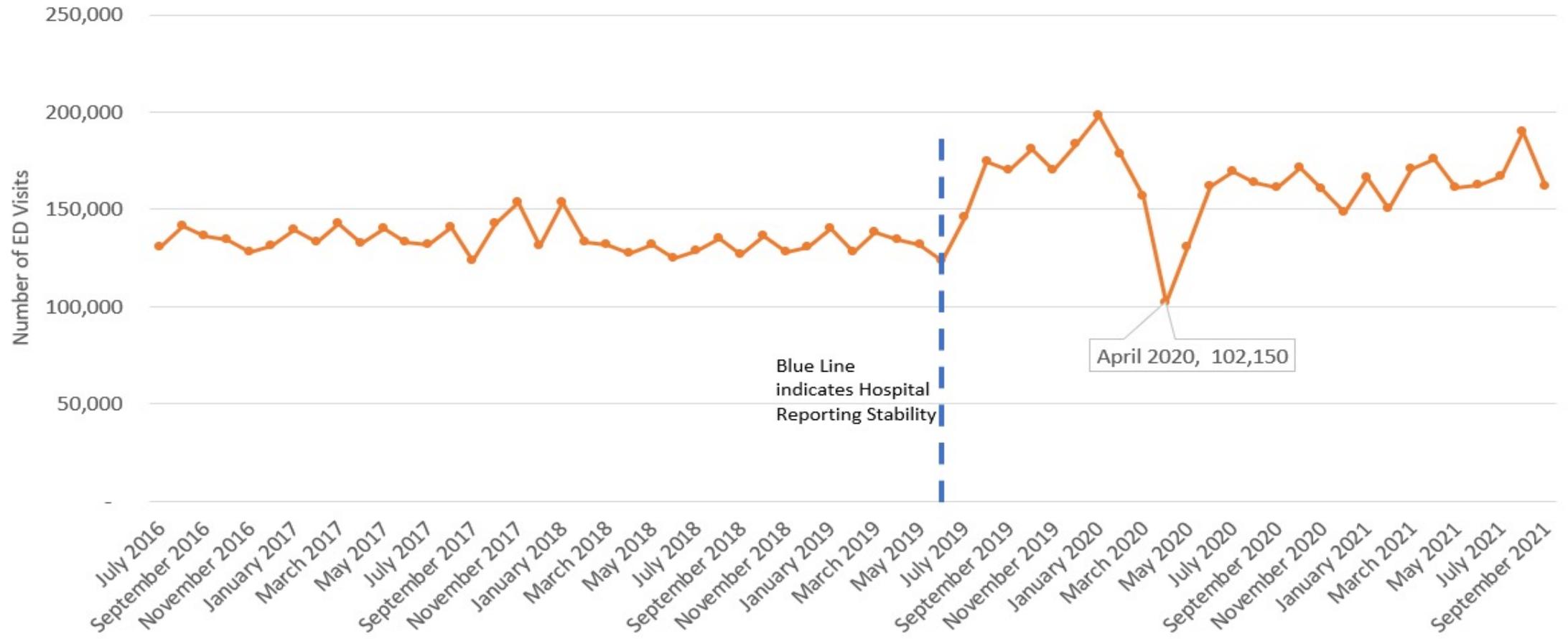
Emergency Department Syndromic Surveillance (EDSS) Overview

- Originally intended for infectious disease surveillance
- In recent years, it has been utilized to monitor ED visits related to nonfatal drug overdose.
 - Has the advantage of providing more timely data
- Caveats to consider:
 - Stability of the number of reporting facilities
 - Does not include federal or IHS facilities
 - Intended to provide a rough estimate of disease burden rather than an exact measure
 - Toxicology not consistently performed

Number of Hospitals Reporting in New Mexico EDSS Data by Quarter, 2016Q1-2021Q3



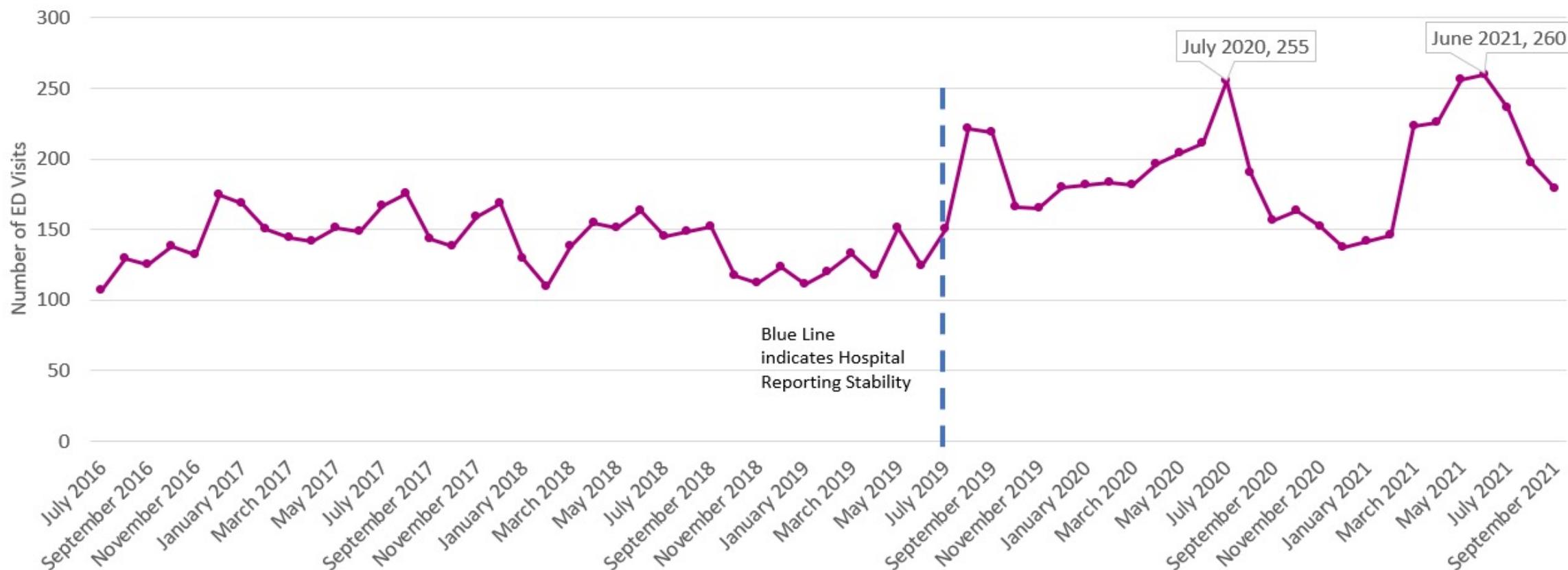
Total All-Cause ED Visits by Month, New Mexico



Data source: NMDOH Syndromic Surveillance ED Files

*These are not individual level data i.e. a person may visit the ED more than once in the specified time period.

Total Drug Overdose Related ED Visits by Month, New Mexico

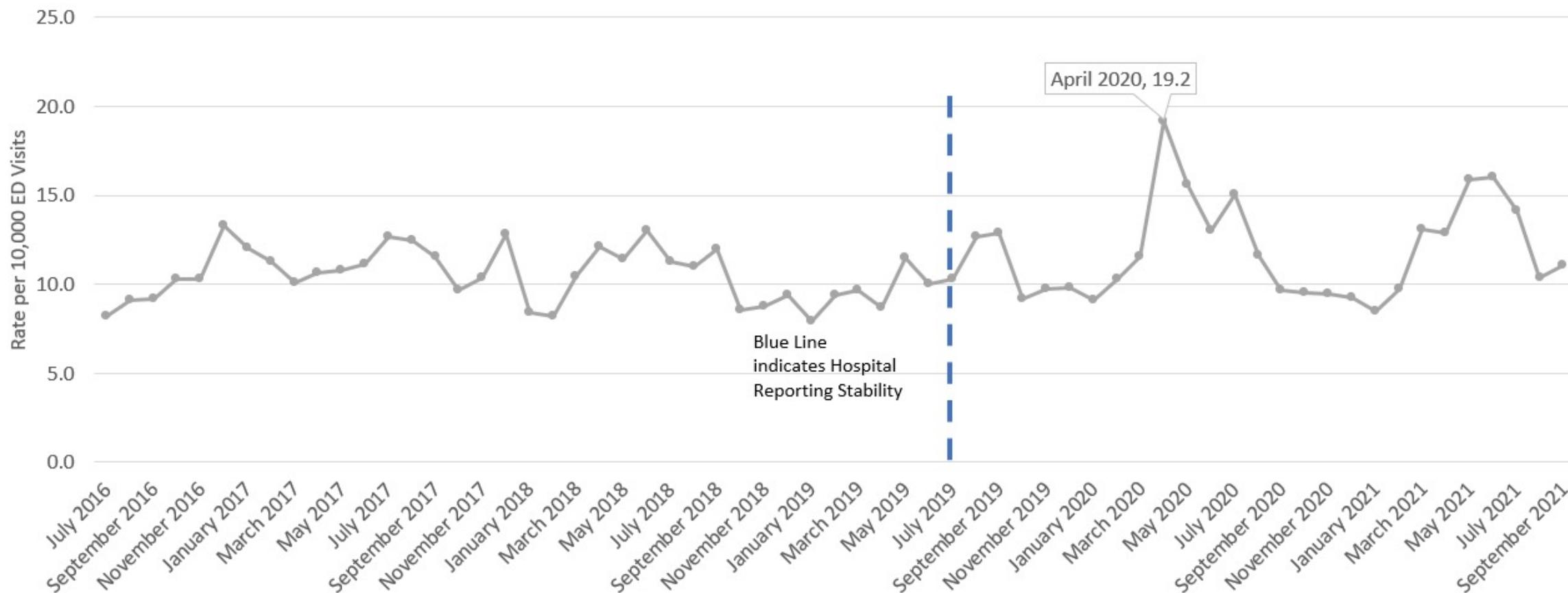


Data source: NMDOH Syndromic Surveillance ED Files

*Total Overdose visits include any overdose due to opioids, amphetamines, benzodiazepines, or cocaine based on finding those drug poisoning ICD-10-CM & ICD-9-CM codes in any diagnosis field.

**These are not individual level data i.e. a person may visit the ED more than once in the specified time period.

Total Drug Overdose Related ED Visit Rate per 10,000 by Month, New Mexico



Data source: NMDOH Syndromic Surveillance ED Files

*Total Overdose visits include any overdose due to opioids, amphetamines, benzodiazepines, or cocaine based on finding those drug poisoning ICD-10-CM & ICD-9-CM codes in any diagnosis field.

**These are not individual level data i.e. a person may visit the ED more than once in the specified time period.

2020 Drug Overdose, Polysubstance, Naloxone

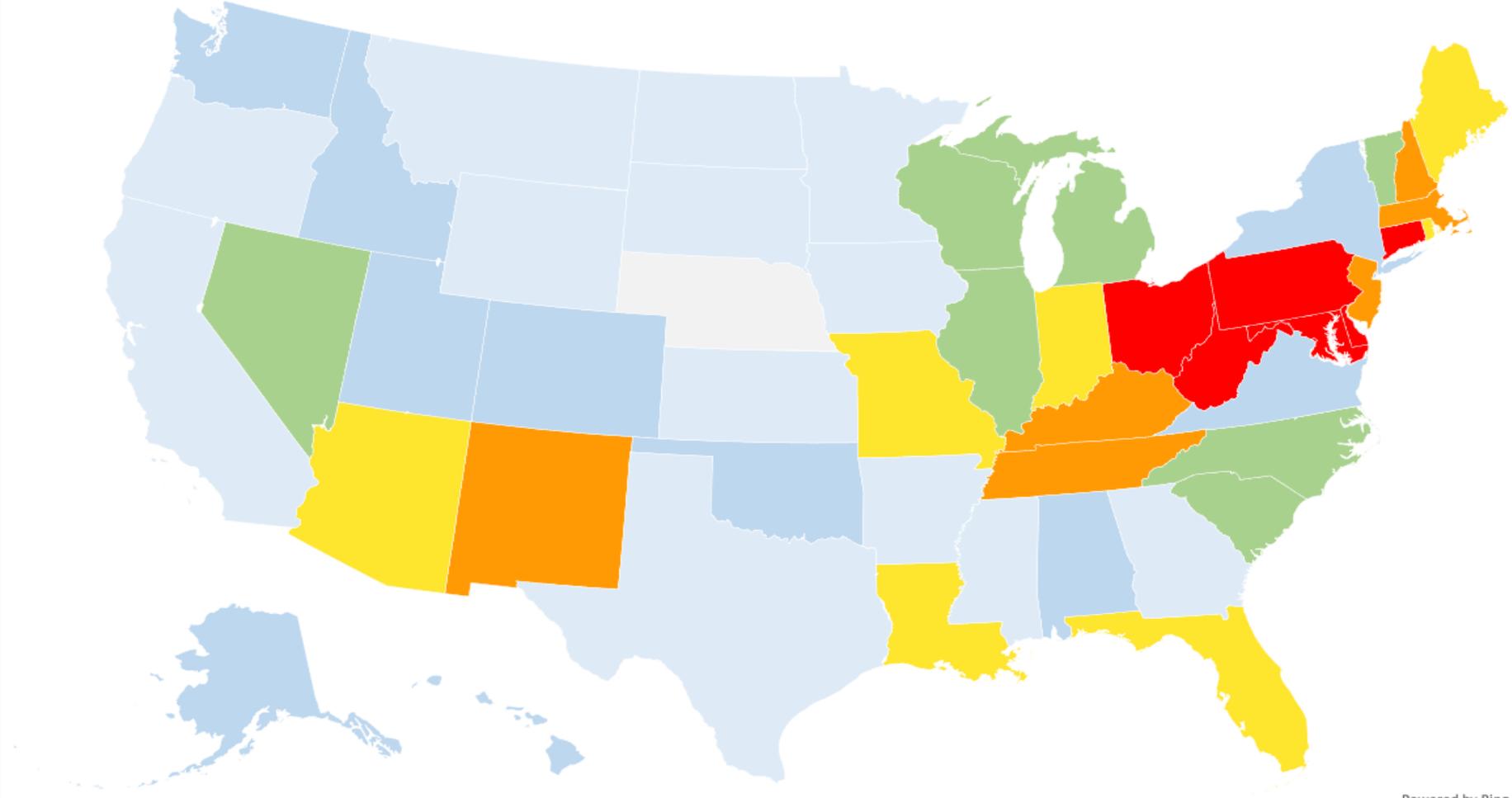
Alisha Campbell

Drug Overdose Epidemiologist

New Mexico Department of Health

Estimated Drug Overdose Death Rates by State, 2019

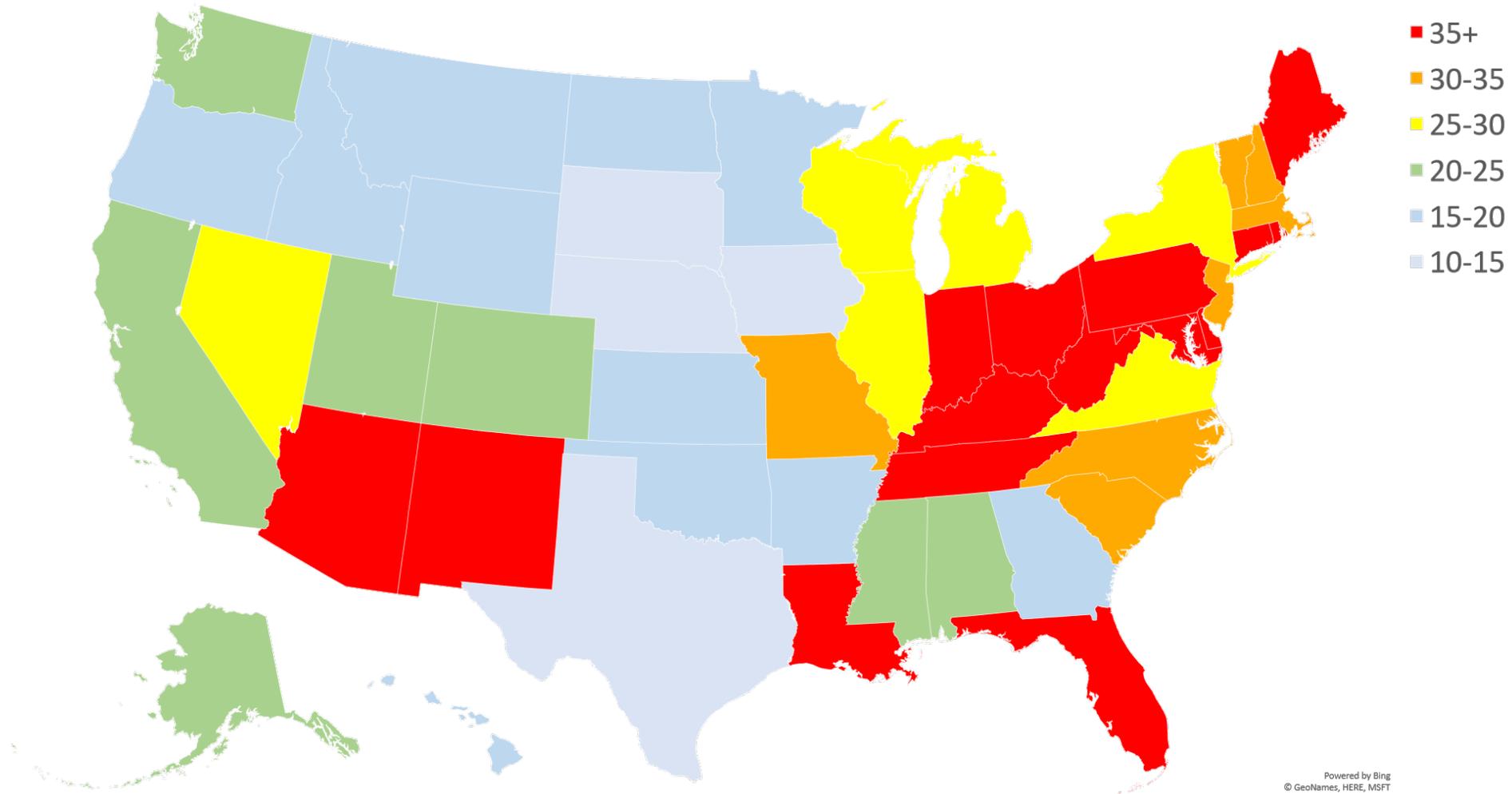
- 35+
- 30-35
- 25-30
- 20-25
- 15-20
- 10-15
- 0-10



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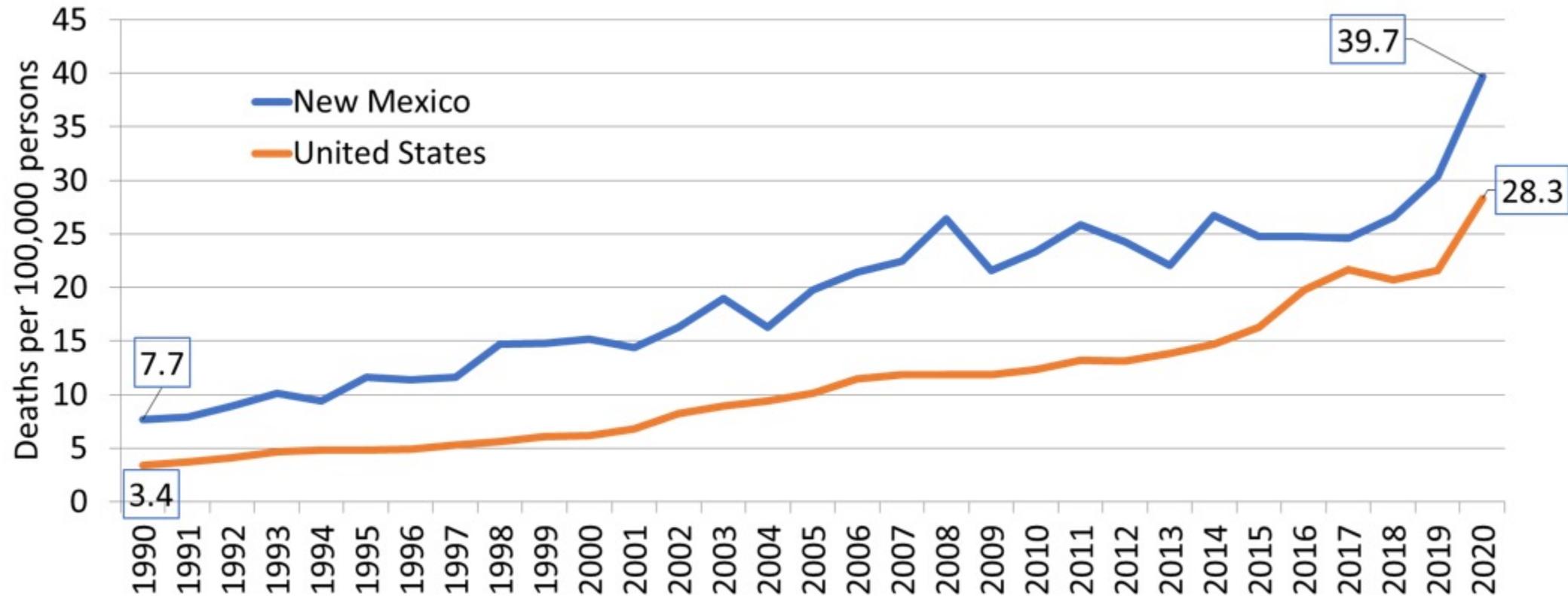
Rate per 100,000 population, estimated from NCHS/NVSS provisional data through Dec 2019
Source: NCHS/NVSS provisional data

Drug Overdose Death Rate by State, 2020



Rate per 100,000 population, estimated from NCHS/NVSS provisional data through Dec 2020
Source: NCHS/NVSS provisional data

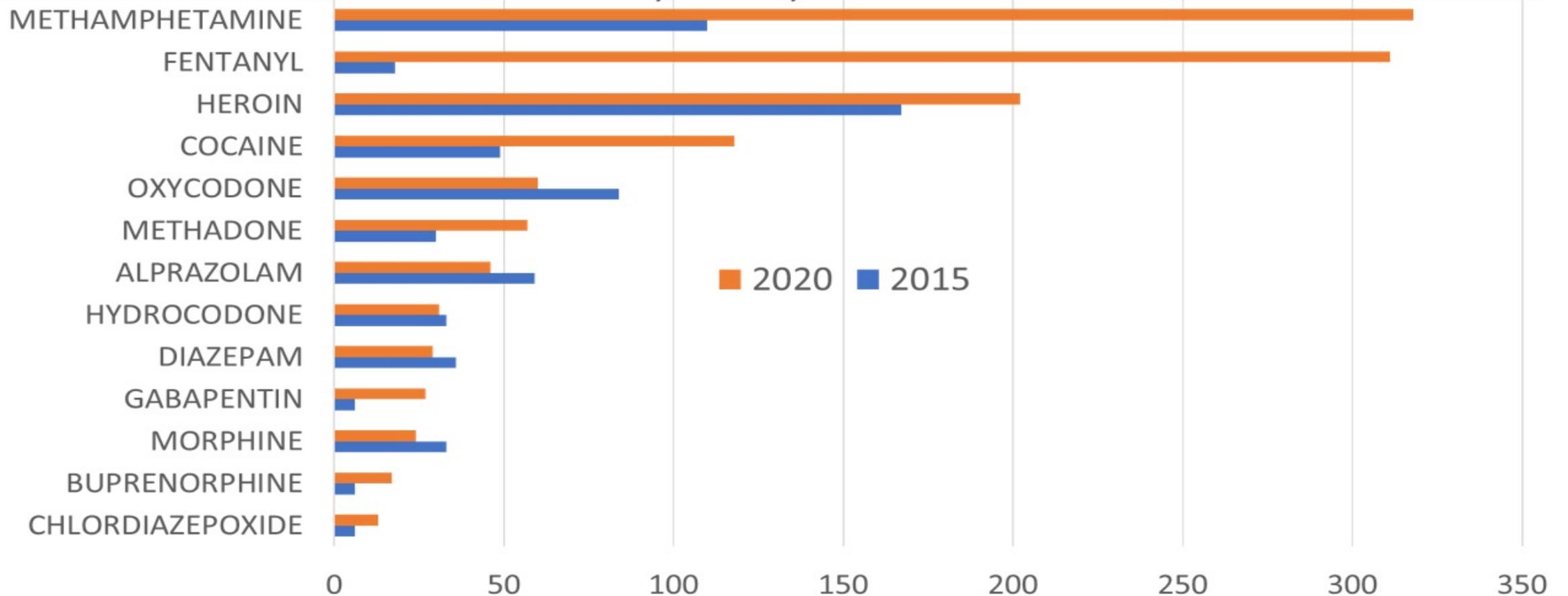
Drug Overdose Death Rates New Mexico and United States, 1990-2020



Rates are age adjusted to the US 2000 standard population

Source: United States (CDC Wonder); New Mexico (NMDOH BVRHS/SAES, 1990-1998,2016-2018 ; NM-IBIS, 1999-2015)

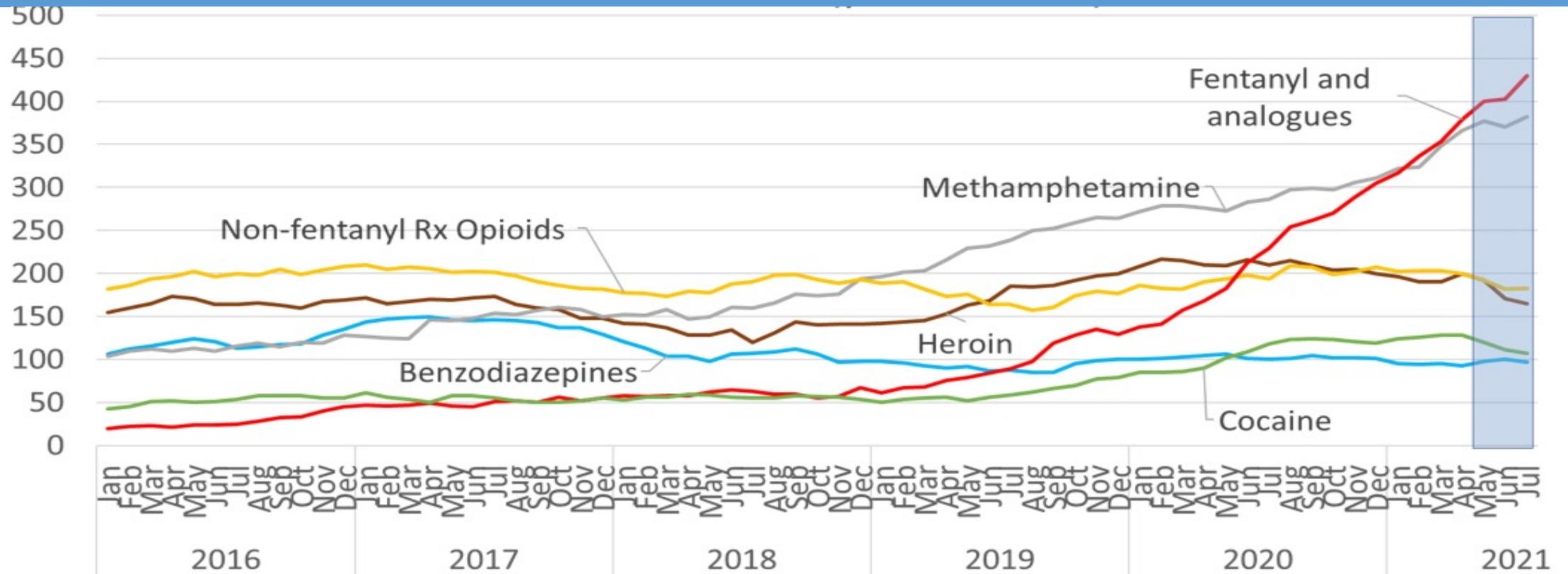
Most Common Drugs in Drug Overdose Death, NM, 2020, vs 2015



Many deaths involve more than one drug
Source: NM DOH BVRHS death data

Drug involvements in overdose deaths

12 Month Running Totals of Overdose Deaths by Drug Class, NM 2016-2021(Provisional)



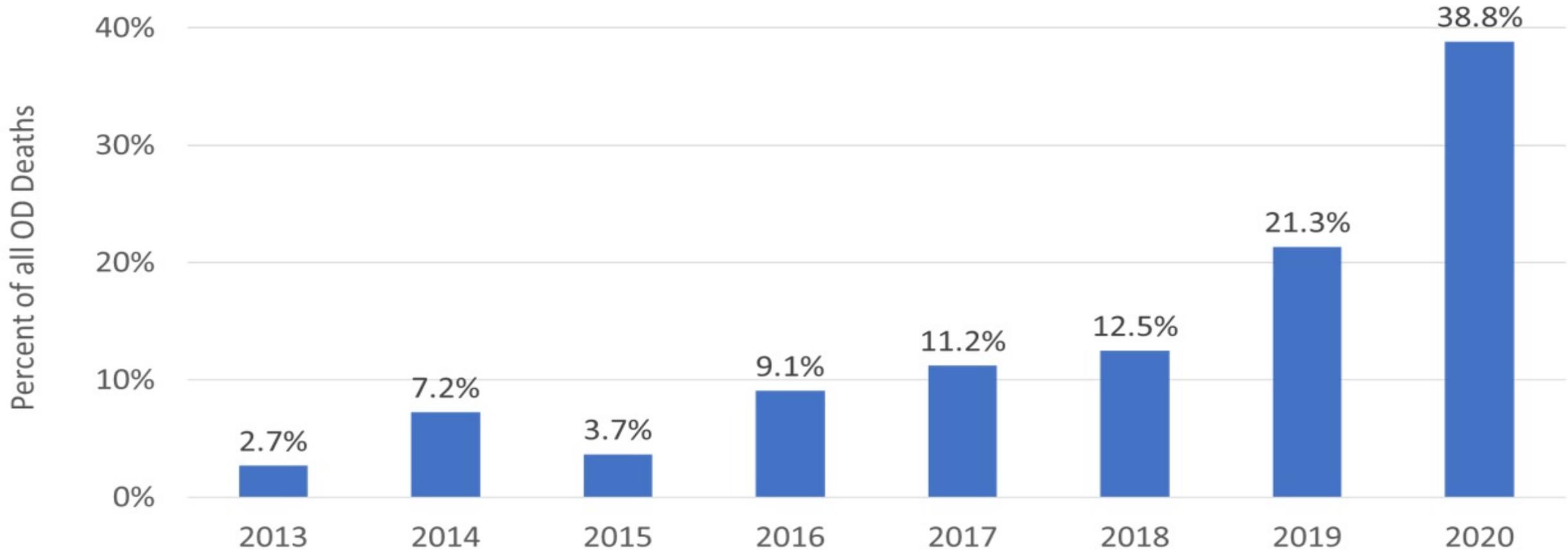
Each point represents the sum of the prior 12 months

Drug types are not mutually exclusive

2020 & 2021 data are provisional as of 12/15/21 and subject to change

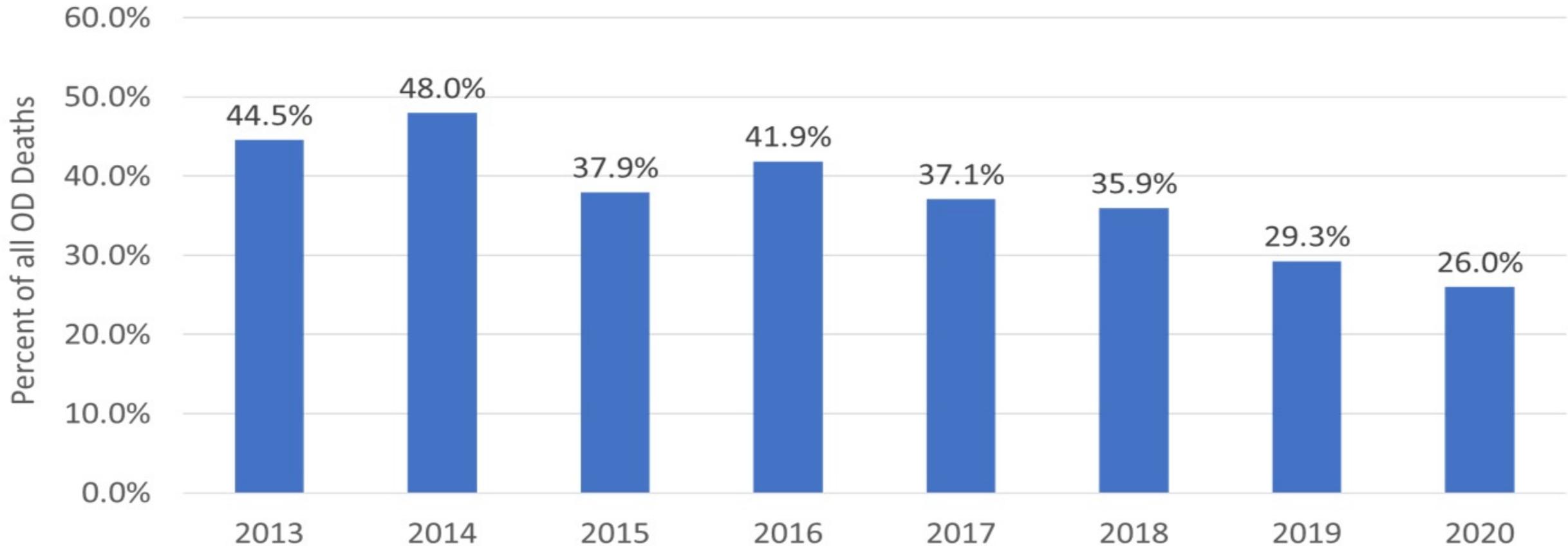
Source: NM DOH Bureau of Vital Records and Health Statistics death data

Percent of Overdose Deaths Involving Fentanyl and Analogues, NM 2013-2020

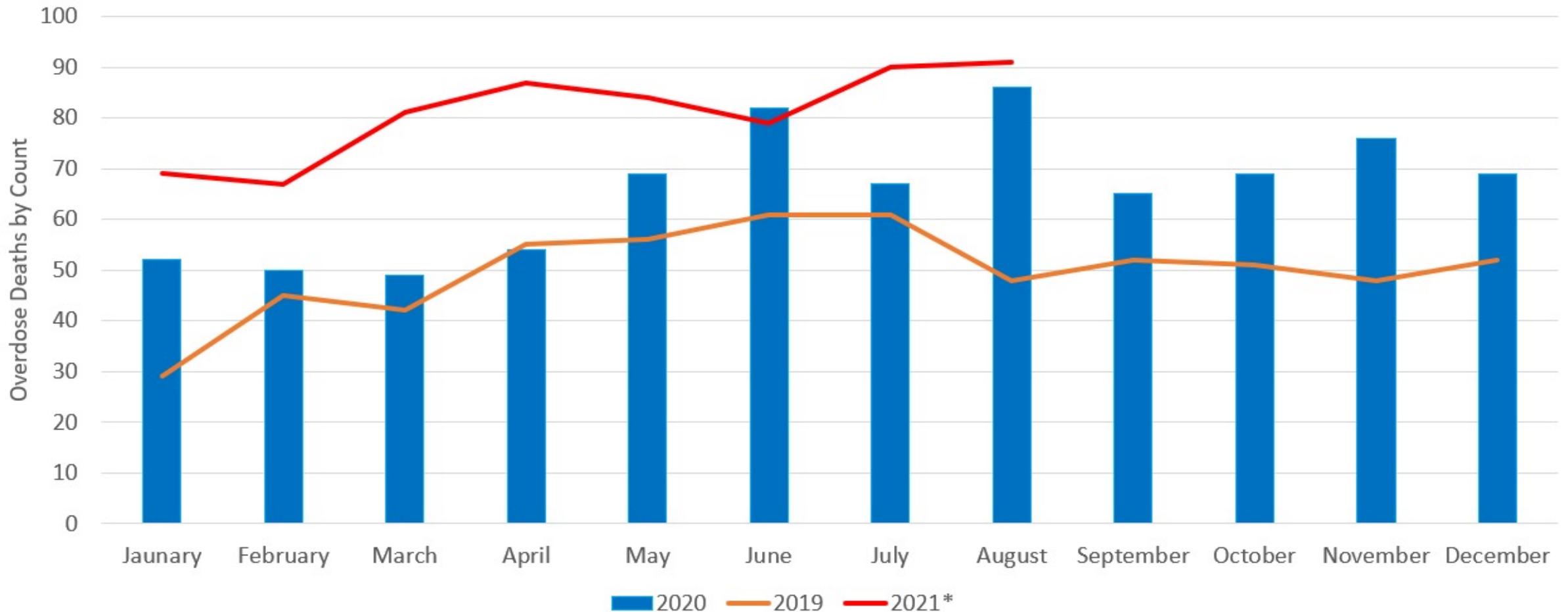


Source: NMDOH Bureau of Vital Records and Health Statistics death data

Percent of Overdose Deaths Involving Non-Fentanyl Rx Opioids, NM 2013-2020



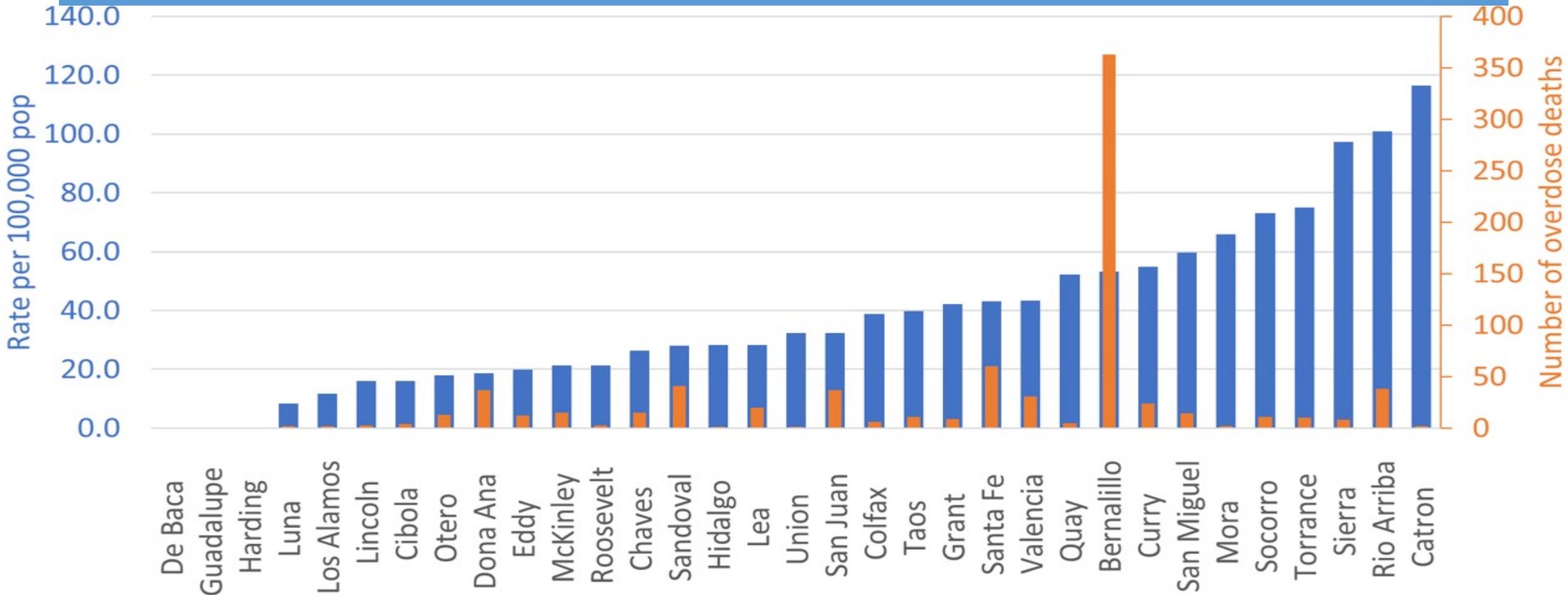
Overdose Deaths by Month and Year, NM 2019-2020 and Provisional 2021



Source: NMDOH Bureau of Vital Records and Health Statistics death data

*2021 data is provisional to 2/9/22 and subject to change

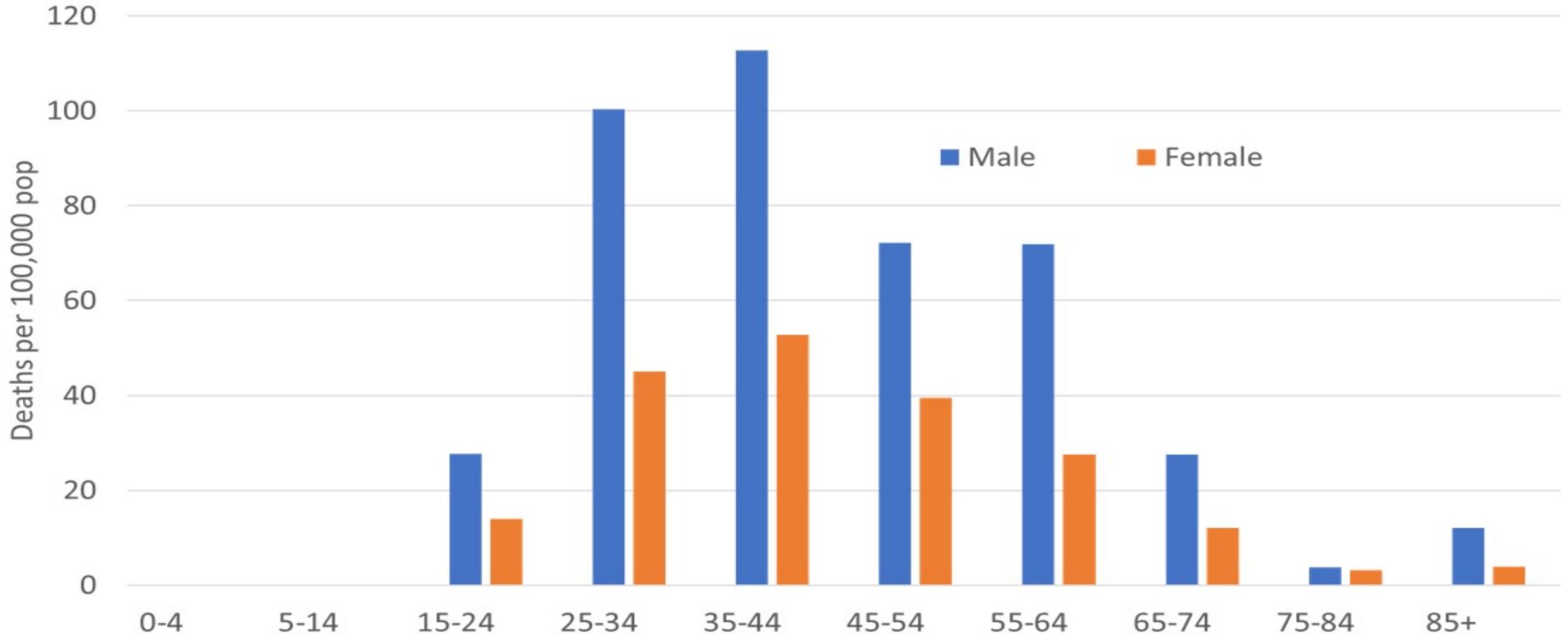
Drug Overdose Death Rates and Count by County, NM, 2020



Rates are age adjusted to the US 2000 standard population

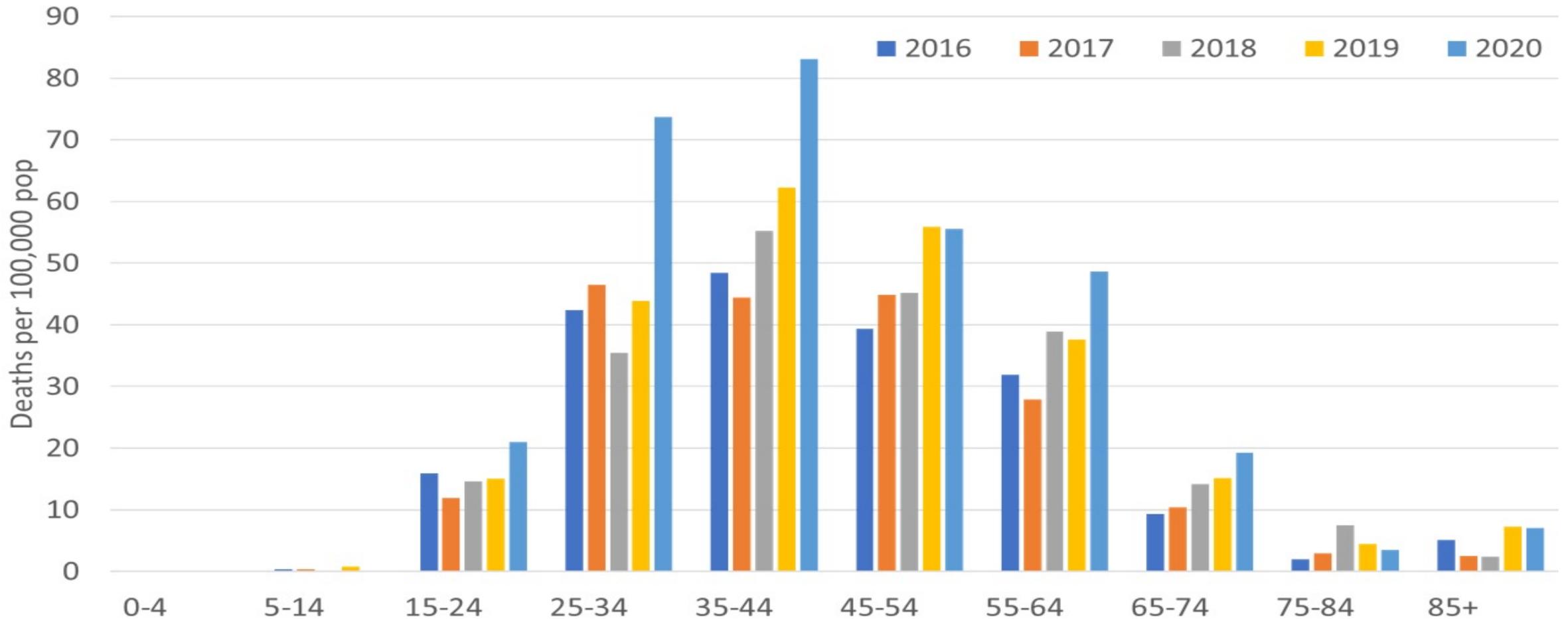
Source: NM BVRHS death data; GPS population estimates

Drug Overdose Death Rates by Age & Sex, NM, 2020



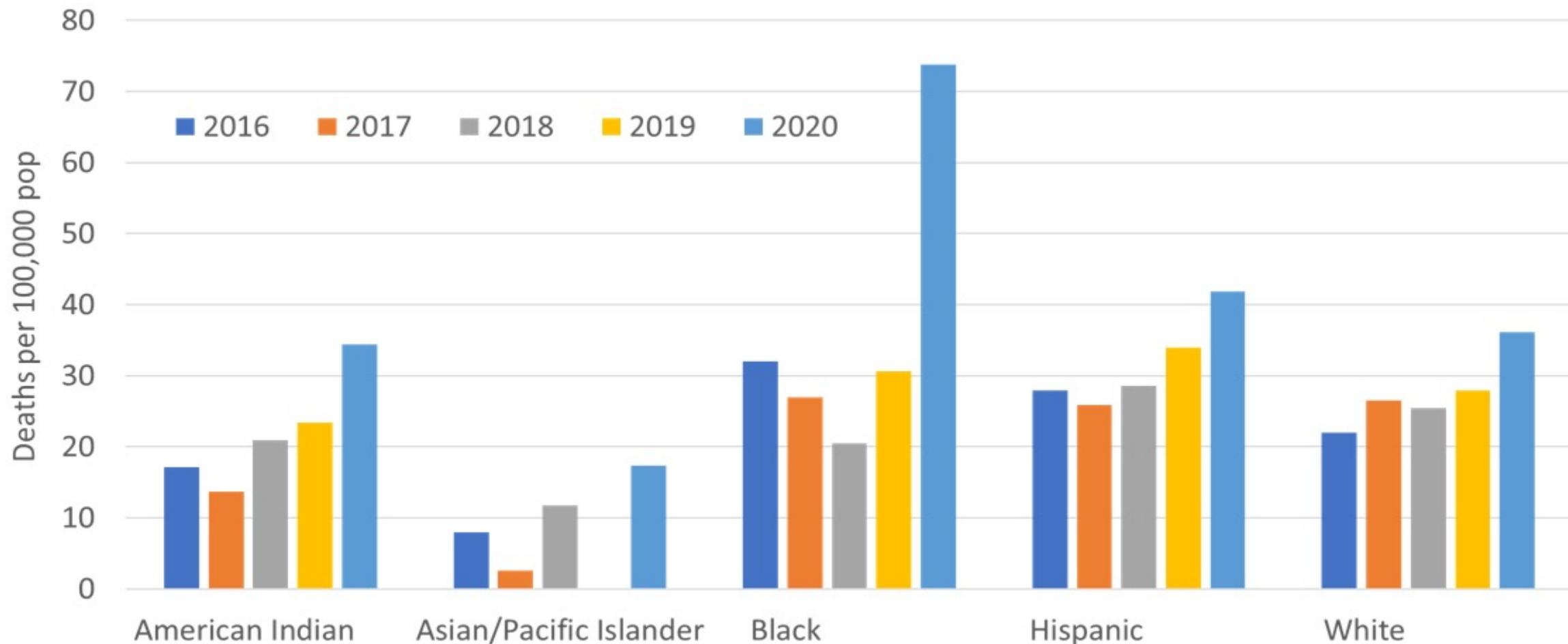
Source: NM DOH BVRHS death data; UNM GPS population estimates

Drug Overdose Death Rates by Age, NM, 2016-2020



Source: NM DOH BVRHS death data; UNM GPS population estimates

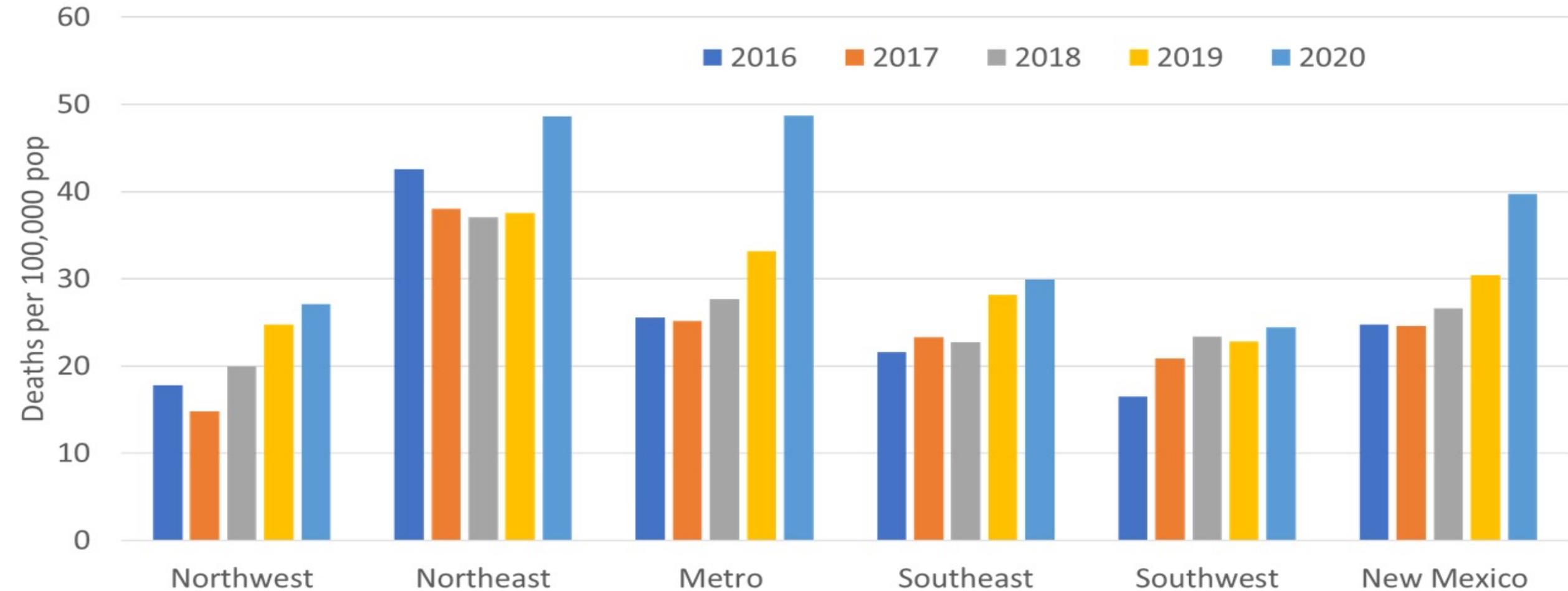
Drug Overdose Death Rates by Race/Ethnicity, NM, 2016-2020



Death rates are age-adjusted to the US 2000 standard population

Source: NM DOH BVRHS death data

Drug Overdose Death Rates by Region & Year, NM, 2016-2020



Death rates are age-adjusted to the US 2000 standard population

Substances in Methamphetamine-involved Drug Overdose Death, 2020

Methamphetamine										
					and with (3rd drug) ...					
With (2nd drug) ...	None (no 3rd drug)	Cocaine	Fentanyl	Treatment Opioids	Pain opioids	Benzo-diazepines	Anti-depressants	OTC Drugs	Total	% Alcohol Involved
None (Meth alone)	119								119	5%
Heroin	40	10	42	4	2	4	1	1	104	13%
Cocaine	5		8	3	0	0	0	1	17	35%
Fentanyl	38			2	10	2	0	0	52	10%
Treatment Opioids	12				1	2	0	0	15	7%
Pain opioids	2					1	0	2	5	0%
Benzodiazepines	2						0	0	2	100%
Antidepressants	1							0	1	0%
OTC Drugs	3								3	0%
Total	222	10	50	9	13	9	1	4	318	10%

*Substances include alcohol

Drug types are not mutually exclusive

Source: NMDOH Bureau of Vital Records and Health Statistics death data

Substances in Fentanyl-involved Drug Overdose Death, 2020

Fentanyl										
				and with (3rd drug) ...						
With (2nd drug) ...	None (no 3rd drug)	Methamphetamine	Cocaine	Treatment Opioids	Pain opioids	Benzo-diazepines	Anti-depressants	OTC Drugs	Total	% Alcohol Involved
None (Fentanyl alone)	74								74	34%
Heroin	19	47	5	4	3	2	0	1	81	19%
Methamphetamine	38		8	2	10	2	0	0	60	13%
Cocaine	31			2	6	9	1	0	49	31%
Treatment Opioids	2				1	0	0	0	3	33%
Pain opioids	12					12	0	0	24	25%
Benzodiazepines	14						3	1	18	33%
Antidepressants	1							0	1	0%
OTC Drugs	1								1	0%
Total	192	47	13	8	20	25	4	2	311	24%

*Substances include alcohol

Drug types are not mutually exclusive

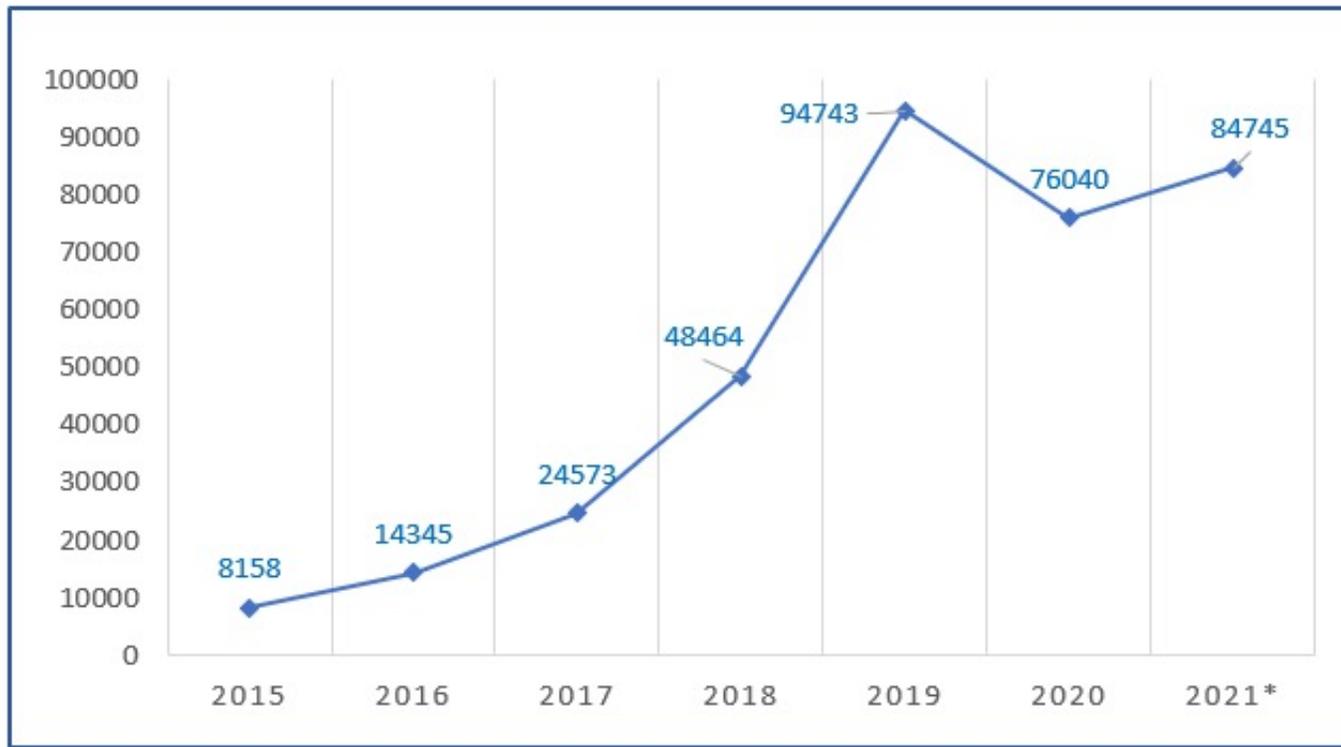
Source: NMDOH Bureau of Vital Records and Health Statistics death data

Review: Drug Overdose Involved Deaths 2020

- Record level of overdose deaths
 - Count = 801 (2019 = 605)
 - Rate = 39.7 (2019 = 26.2)
- Driven by illicit substances
 - Fentanyl
 - Methamphetamine
- Overdose death rate due to prescription opioids is decreasing
- Overdose deaths appear to have a seasonality trend
- Close to half of all the counties in New Mexico have death rates equal to or higher than the state rate
- Males between 35-44 had the largest rate of overdose deaths, 25-34 largest increase in from 2019-2020
- Blacks had shown an extremely significant increase in overdose deaths

Naloxone Distribution

Naloxone Doses Distributed, NM, 2015-2021*

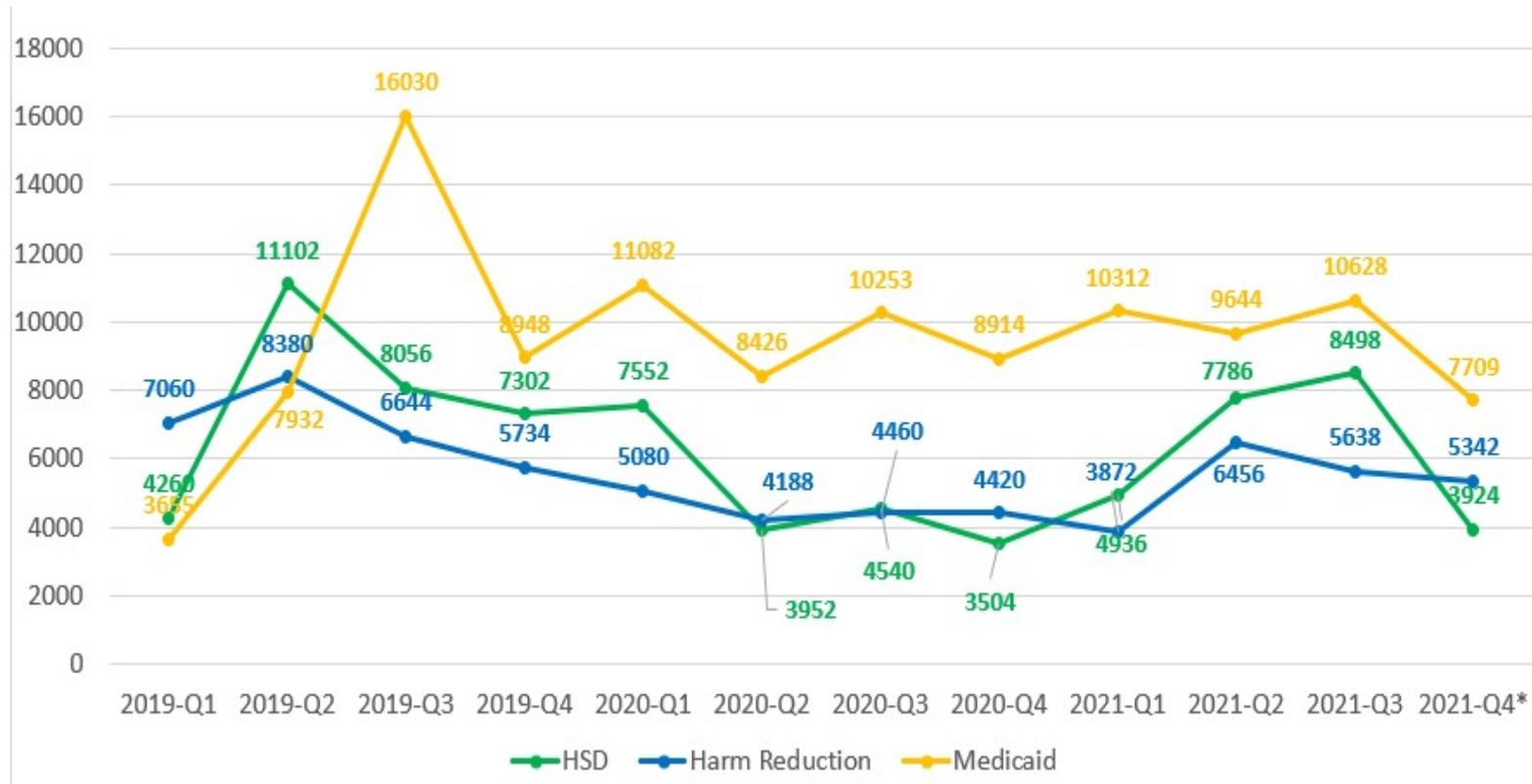


- Total Distribution doubled each year through 2019
- In 2020, there was a 20% decrease
- In 2021, current reported data has shown a 10% increase. This will increase as final data is received.

Data sources: NMDOH Harm Reduction Program, Medicaid Claims data, and BHSD-OSAP data.

*2021 Data is not complete

Naloxone Distribution by Quarter and Source, NM, 2019Q1-2021Q4*

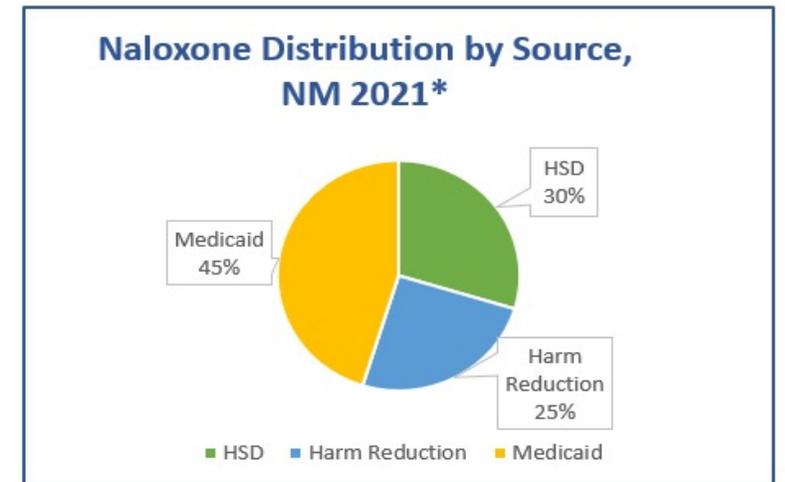
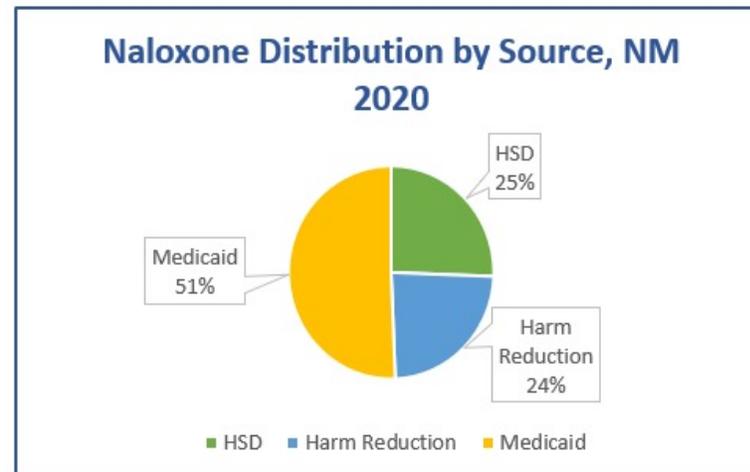
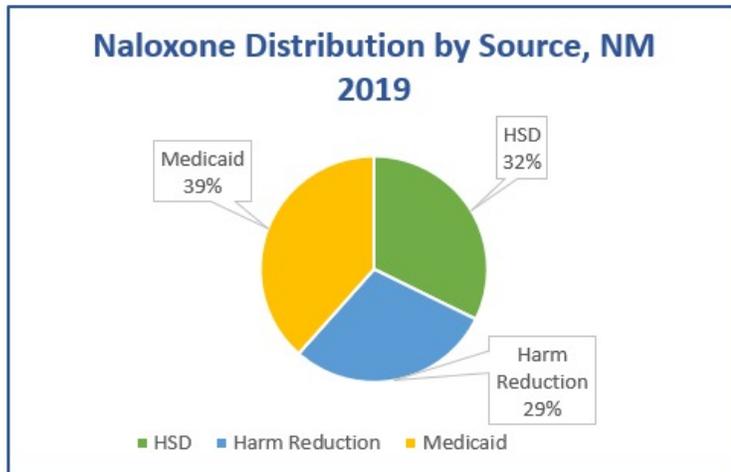


- The data DOH reports is collected from 3 sources
- Declines in distribution 2020-Q2 though 2021-Q1
- Medicaid has decreased slightly, is the largest distributing source

Data sources: NMDOH Harm Reduction Program, Medicaid Claims data, and BHSD-OSAP data.

*2021-Q4 data is not complete

Naloxone Distribution by Source, NM, 2019-2021*

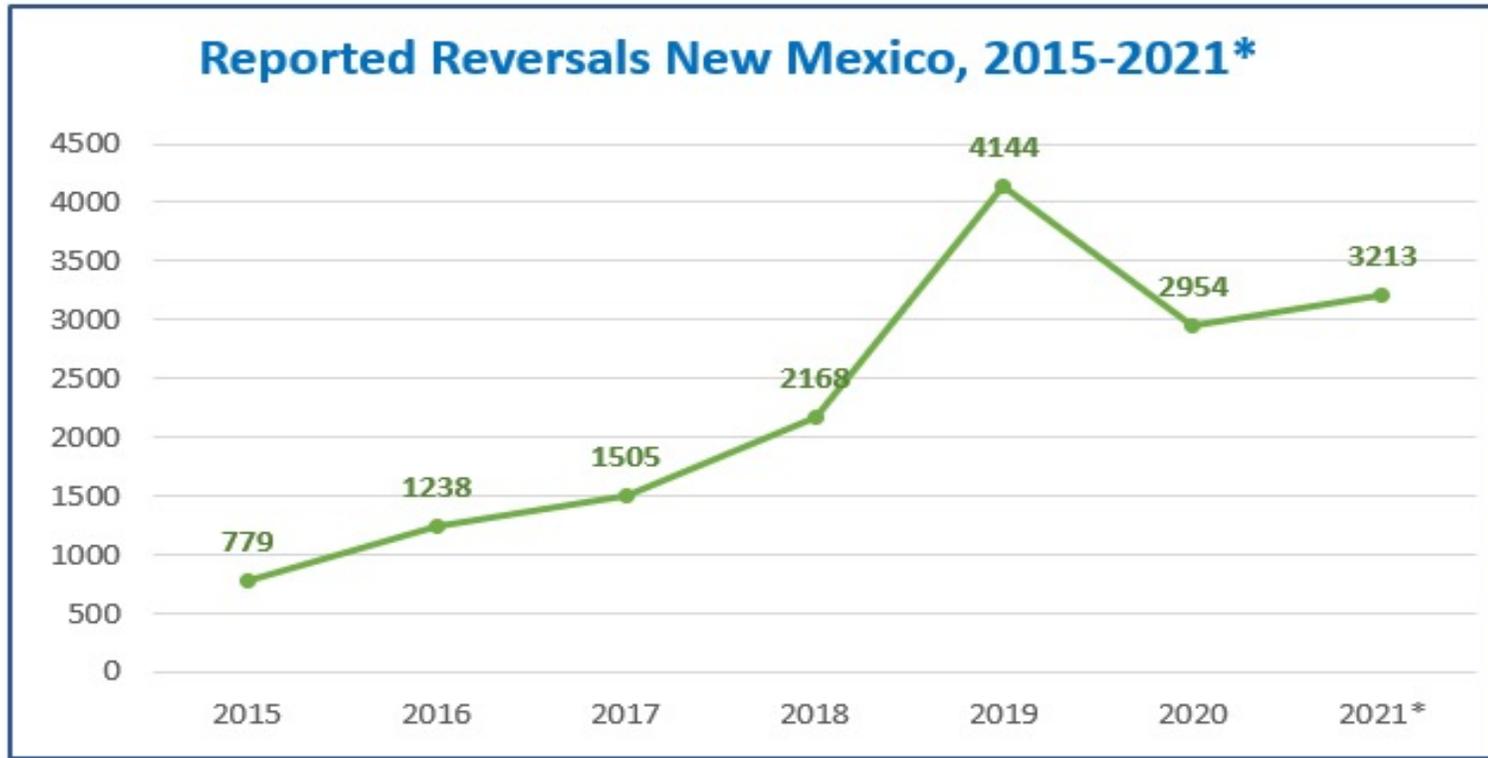


Data sources: NMDOH Harm Reduction Program, Medicaid Claims data, and BHSD-OSAP data.

*2021 Data is not complete

- In 2019, the distribution was slightly more equal
- In 2020, Medicaid increased to 51%
- So far in 2021, Medicaid claims are still the largest source for naloxone distribution

Reported Reversals, NM, 2015-2021*

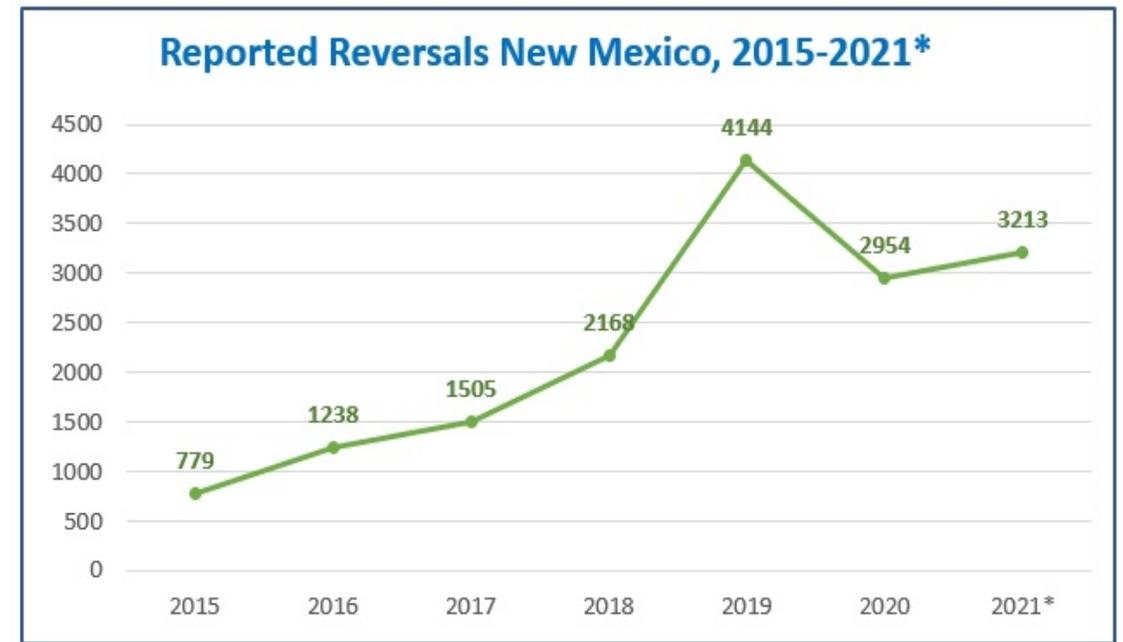
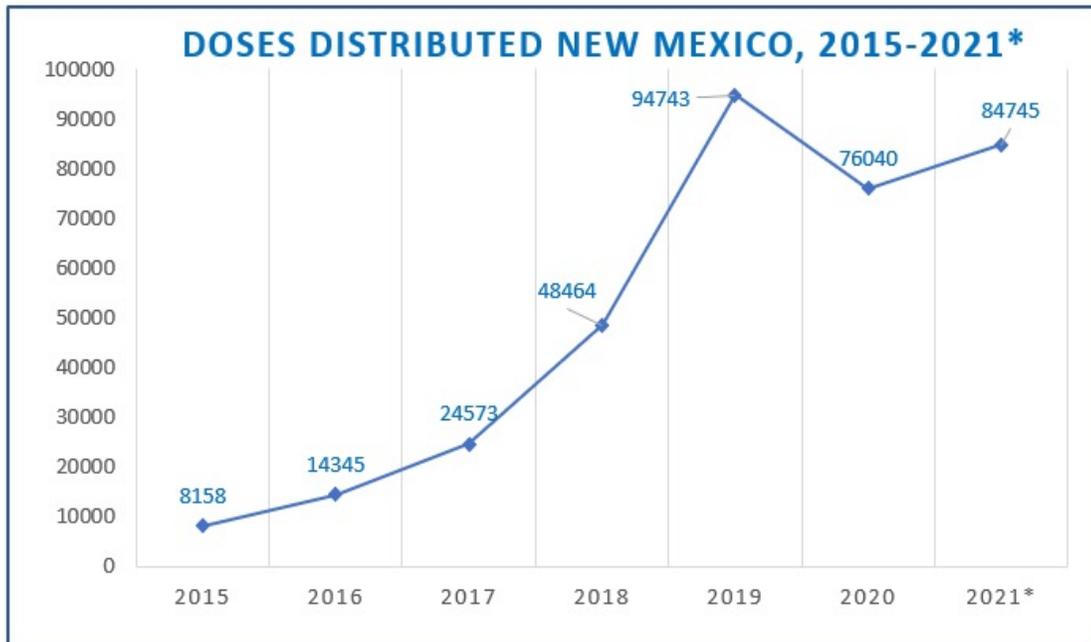


- Since 2015, reporting of reversals was steadily increasing
- There was about a -29% in reversals reported 2019 to 2020
- 2021 has shown a 9% increase.
- Roughly 95% of reversals are reported through harm reduction services.

*Reversals are defined as a patient outcome of "OK"

**Reversals are not individual level data i.e. the same person may have been reversed more than once.

Doses of Naloxone Distributed and Reported Reversals, NM, 2015-2021*



Data sources: NMDOH Harm Reduction Program, Medicaid Claims data, and BHSD-OSAP data.

*2021 Data is not complete

Alcohol Related Deaths New Mexico, 2020

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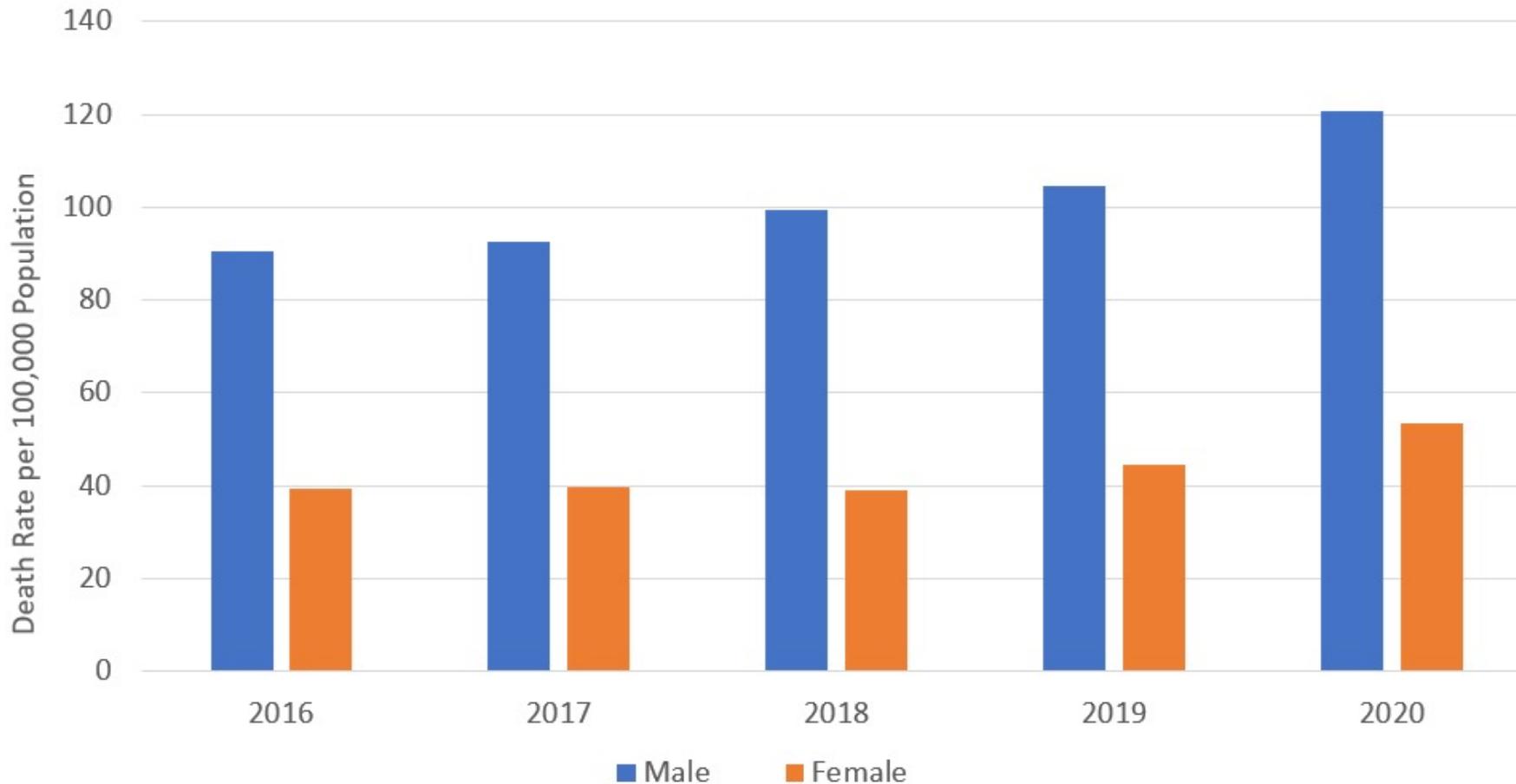
Alcohol-related Death Rate*, NM, by Cause, 2016-2020



*NM Rates have been age-adjusted to the standard U.S. 2000 population

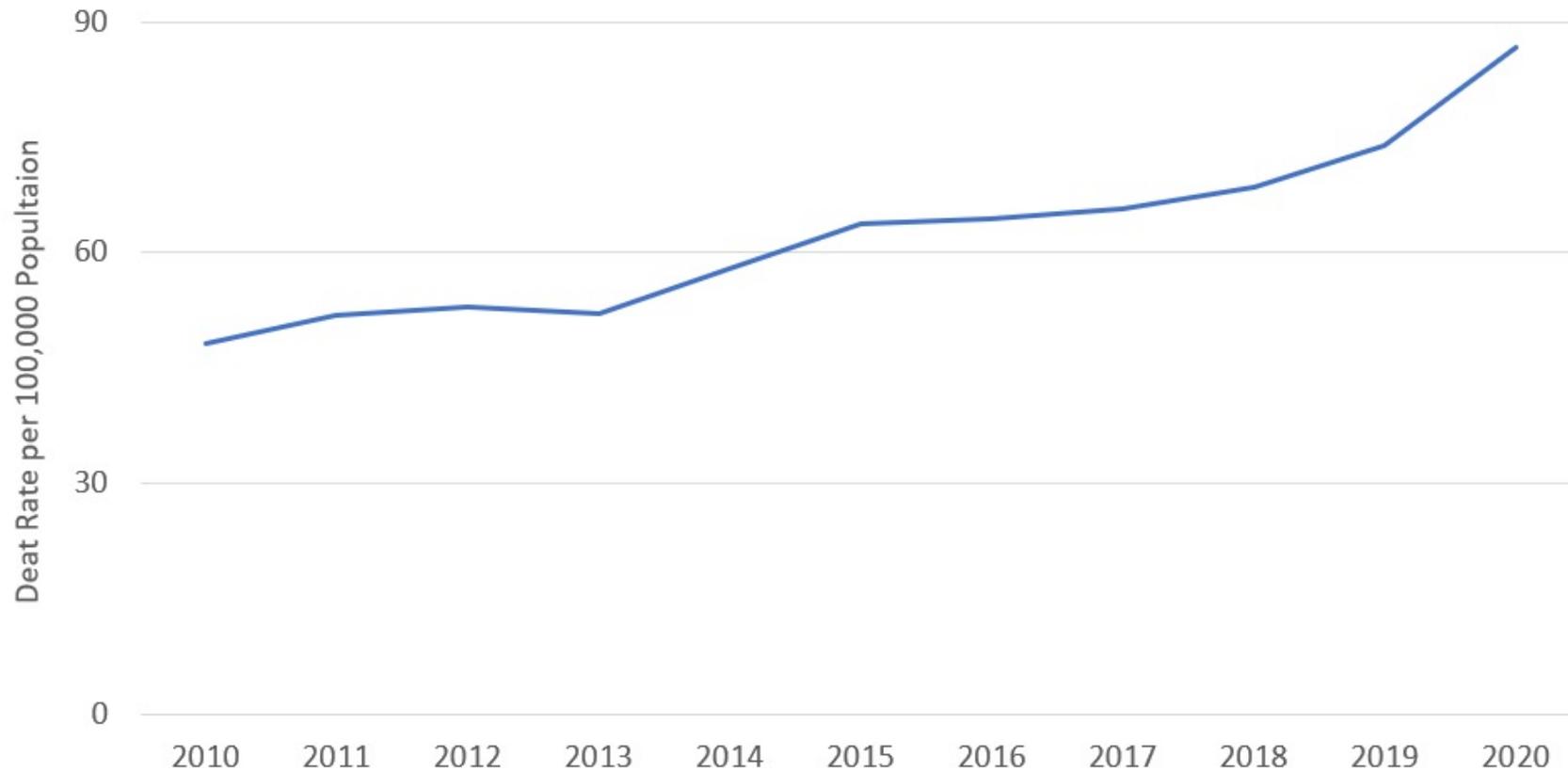
Source: NM Vital Records and Health Statistics; UNM/GPS; CDC ARDI v3

Alcohol-related Death Rate*, NM, by Sex, 2016-2020



*NM Rates have been age-adjusted to the standard U.S. 2000 population
Source: NM Vital Records and Health Statistics; UNM/GPS; CDC ARDI v3

Alcohol-related Death Rate*, NM, 2010-2020



*NM Rates have been age-adjusted to the standard U.S. 2000 population

Source: NM Vital Records and Health Statistics; UNM/GPS; CDC ARDI v3

Questions?

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