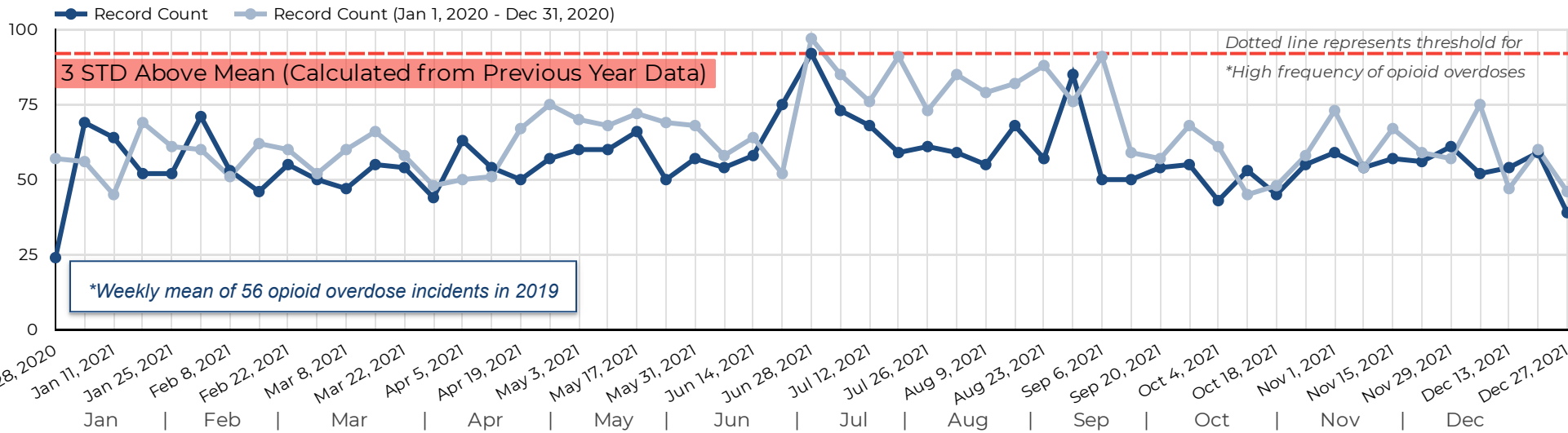


Figure 1 Weekly Comparison of Suspected Opioid Overdose Data (January 1st, 2020- December 31st, 2021)



All overdose incidence rates are monitored using 9-1-1 patient records made available in near real-time data from FirstWatch®, a data platform capturing all patient care report data within the emergency medical service system.

Suspected Opioid Overdose Incident Totals

Comparison to Previous Year (January-December 2020)

Opiate Overdose 2021
2,872

↓ -11.4%

Overdose Fatality 2021
142

↓ -22.0%

Comparison to Previous Month

Opiate Overdose Dec 2021
235

↑ 0.4%

Overdose Fatality 2021
16

↑ 166.7%

Figure 2 Suspected Opioid Overdose & Fatality by Age Group

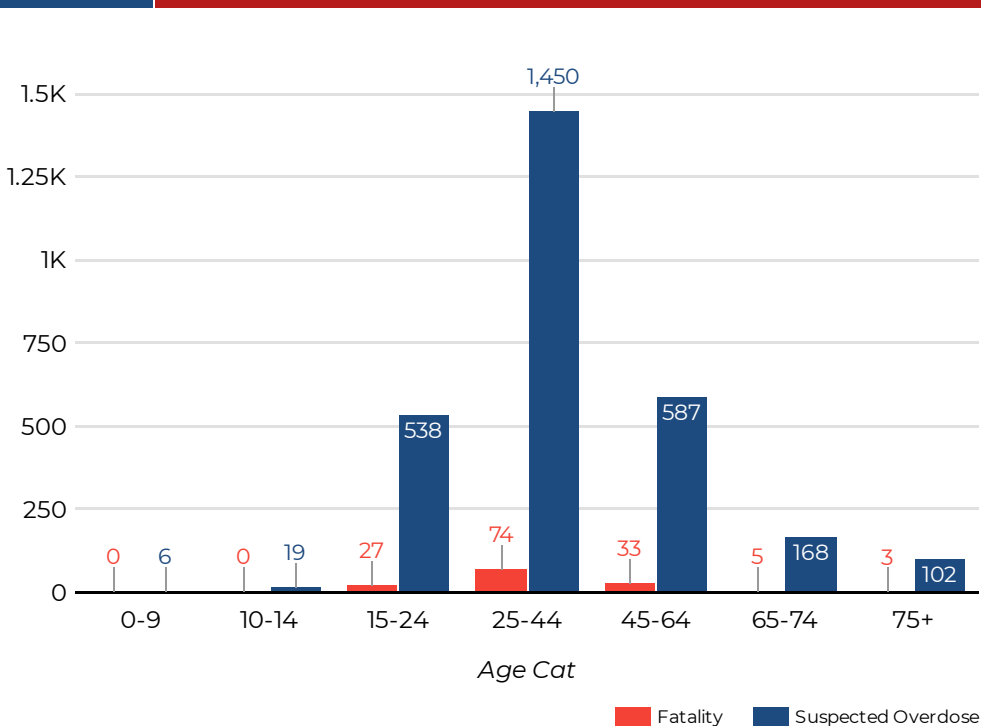
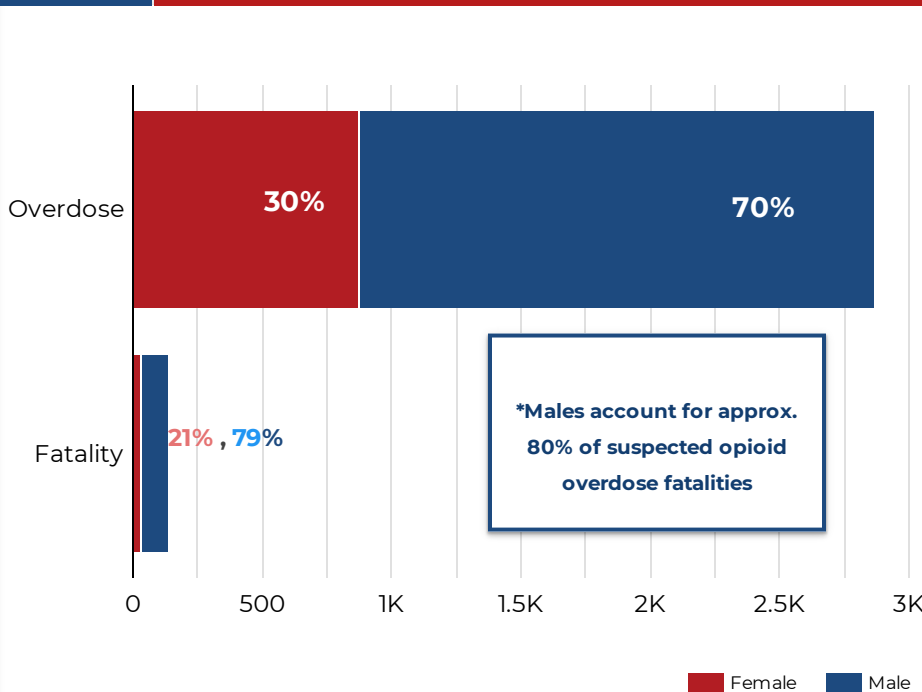


Figure 3 Suspected Opioid Overdose & Fatality by Gender



All Suspected Drug Overdose EMS Incidents (January 1st 2021-December 31st, 2021)

All Drug Overdoses (Jan-Dec 2021)

4,081

↓ -16.6%

Drug Overdose Fatality (Jan-Dec 2021)

177

↓ -21.7%

Figure 5 All Suspected EMS Overdose Records (2020-2021 Comparison)

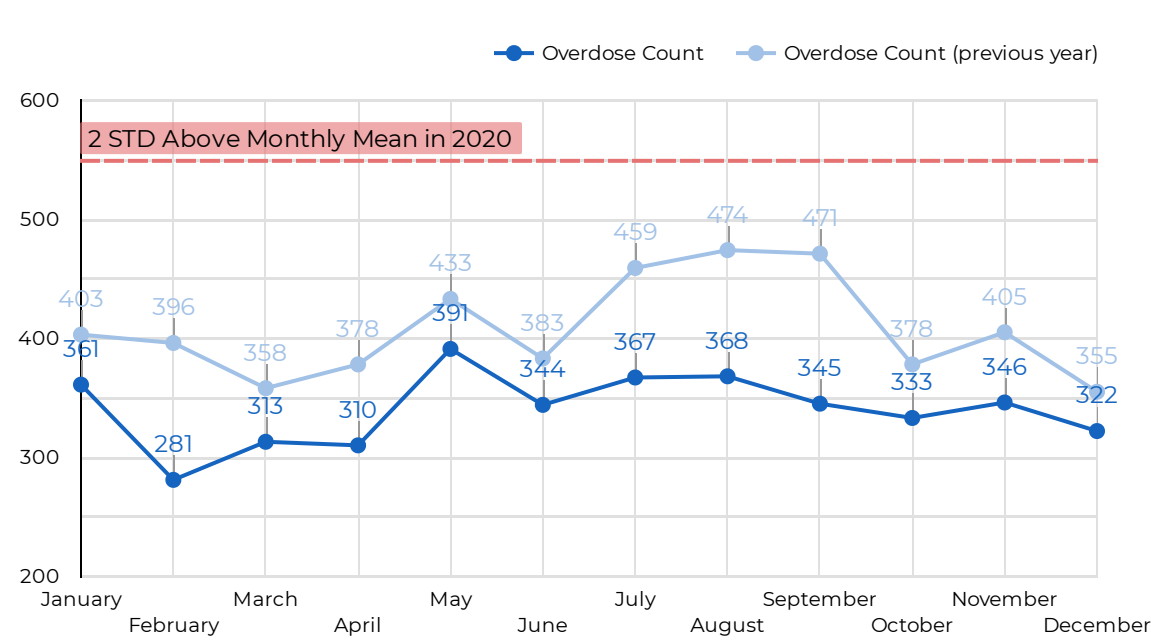


Figure 4 All Suspected EMS Overdose Records by City

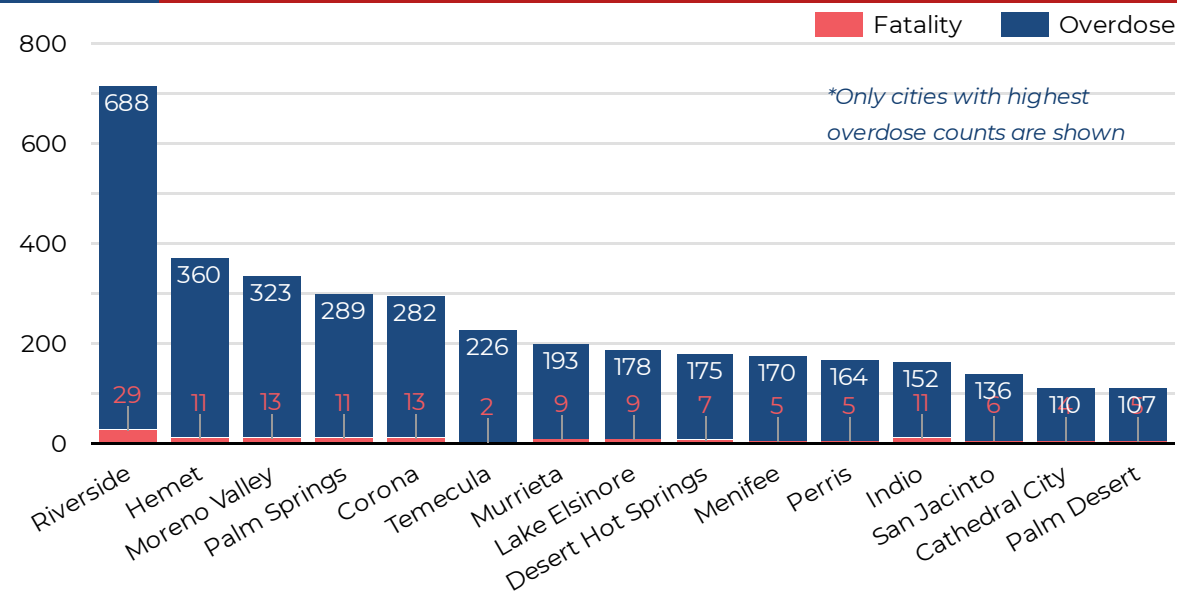


Figure 6 Type of Drug Mentioned in Overdose Calls

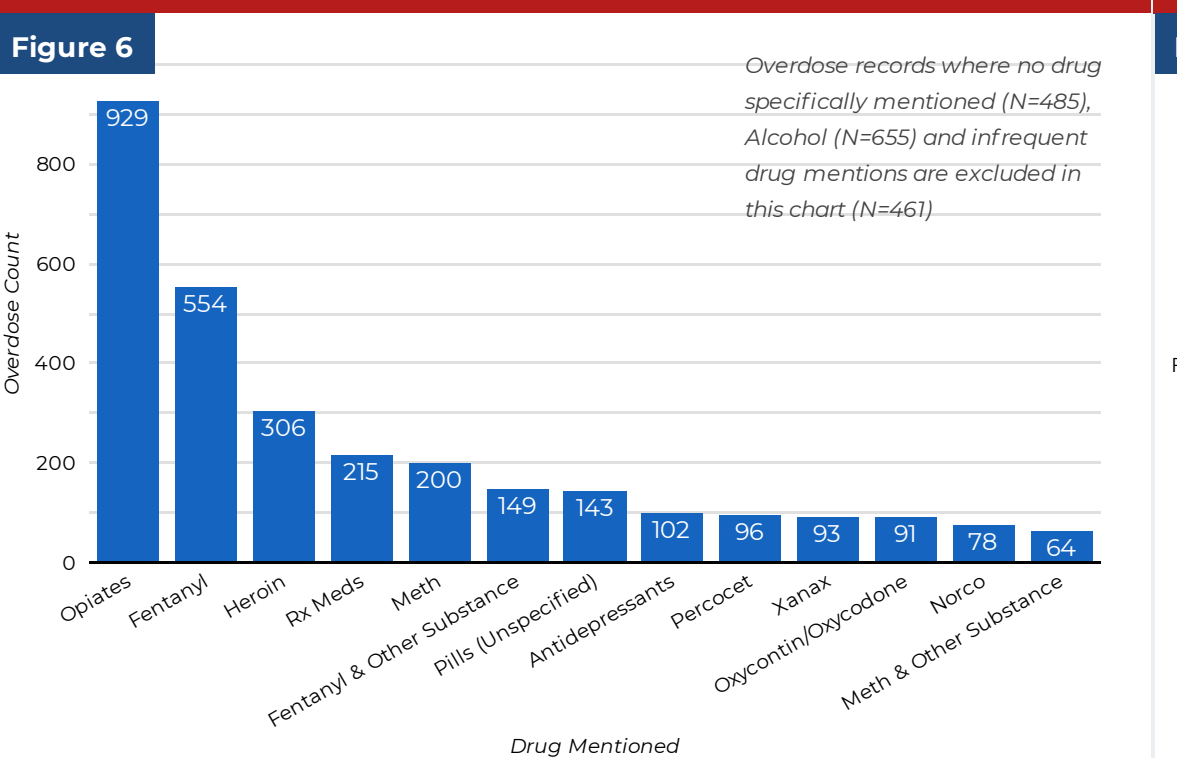
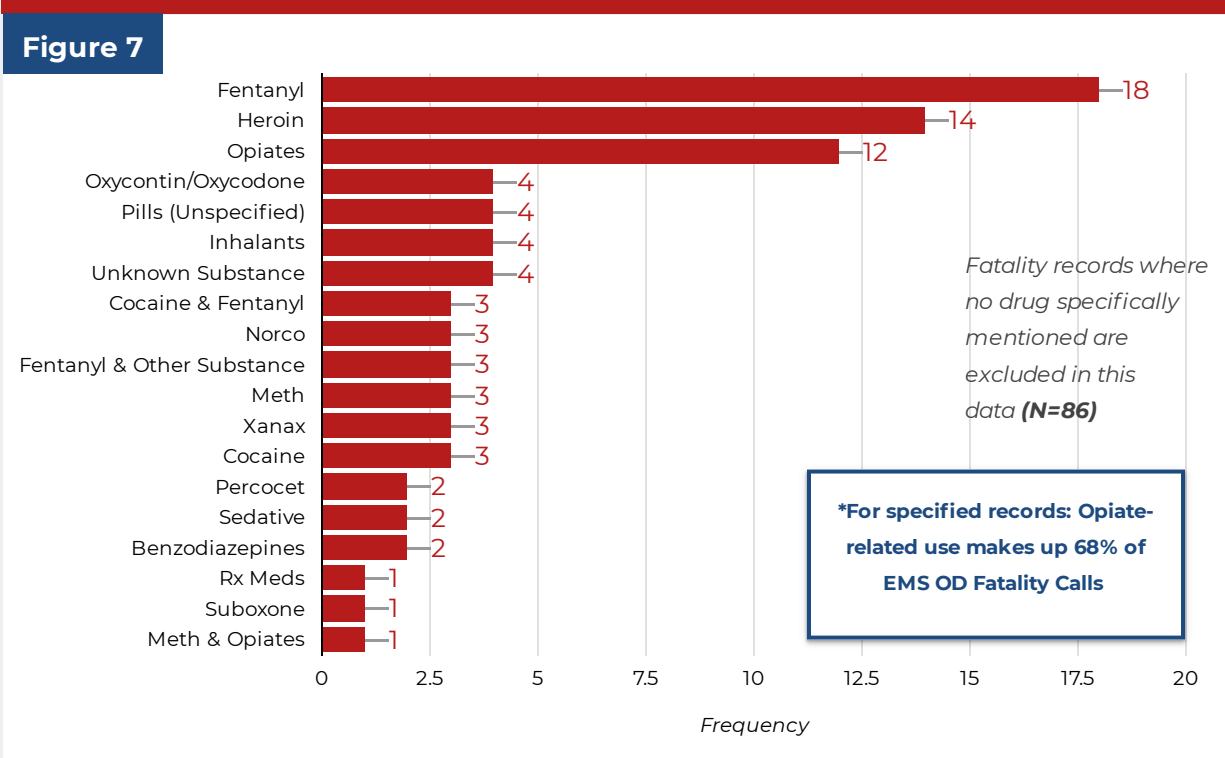


Figure 7 Type of Drug Mentioned in Fatal Overdose Calls



***For specified records: Opiate-related use makes up 68% of EMS OD Fatality Calls**

*All drug categories in Figure 6 and 7 are mutually exclusive

Overdoses in Patients Experiencing Homelessness and/or Mental Health Crisis

(January 1st, 2021- December 31st, 2021)

Overdose-Homelessness Records 2021

649

Homelessness-Overdose Fatality

16

Mental Health-Overdose Records 2021

306

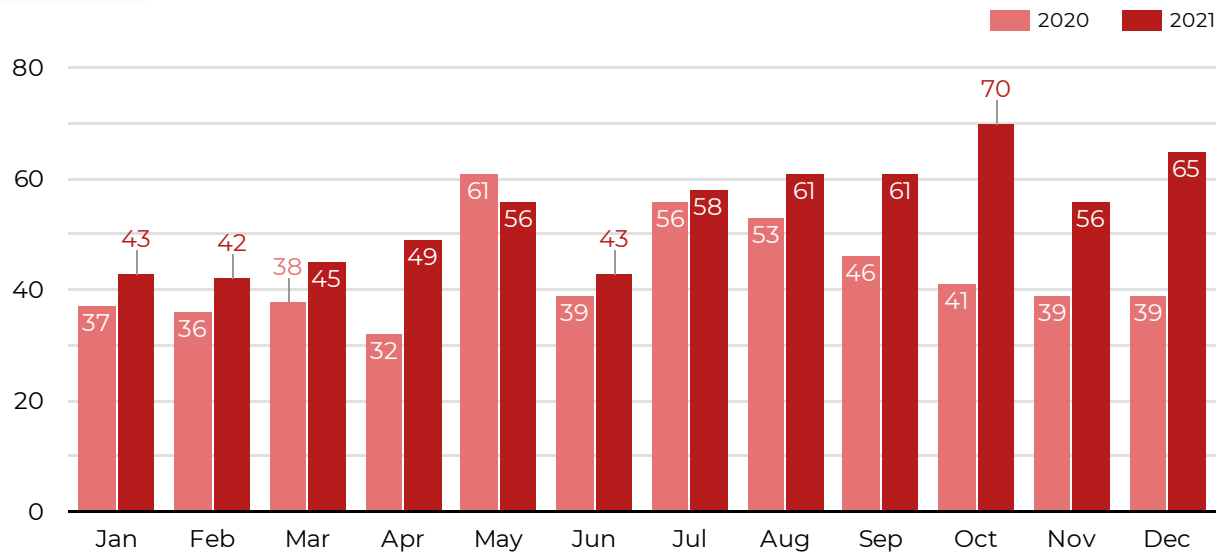
Mental Health-Overdose Fatality

0

According to California Welfare and Institutional Code (WIC), a 5150 (mental health crisis) enables law enforcement and designated medical professionals to place individuals posing imminent risk to self or others on involuntary 72-hour hold. From 1/1/2021-12/31/2021, Riverside County Emergency Medical Services (EMS) providers responded to an average of **26** WIC-5150 emergency and non-emergency transport overdose calls each month in 2021. Homelessness (unstable housing) is an important factor for resource allocation and understanding all factors that can lead to overdose in the EMS system. Homeless status is established and self-reported by patient to EMS provider and noted in electronic patient care records that display patient as homeless. There are two fields within the record "Patient Home Address"="Homeless" or a checkbox, "Is patient homeless" marked "Yes" to indicate homeless patient status. The data displays all overdose records that involve a patient with homeless status.

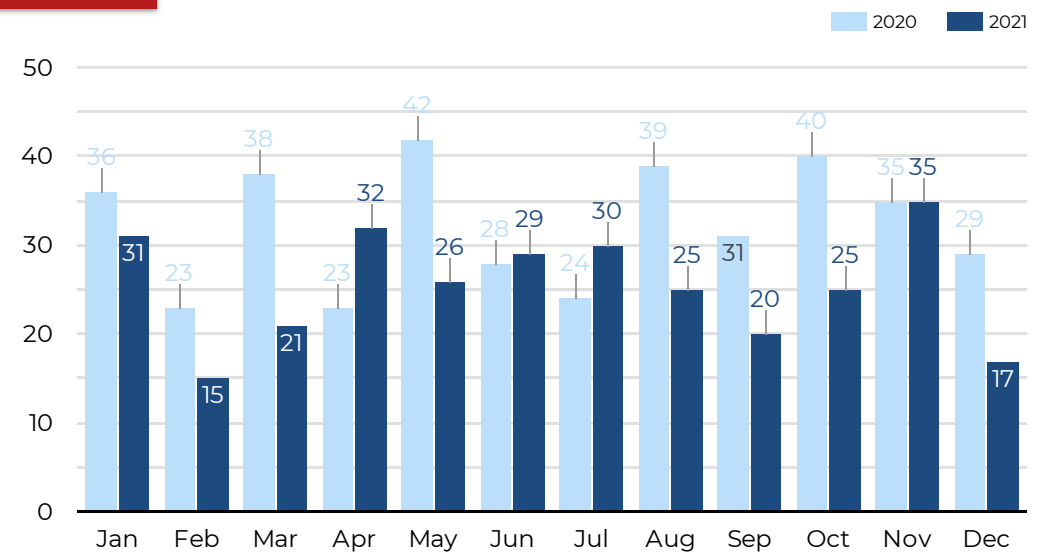
Overdoses in Patients Experiencing Homelessness by Month

Figure 8



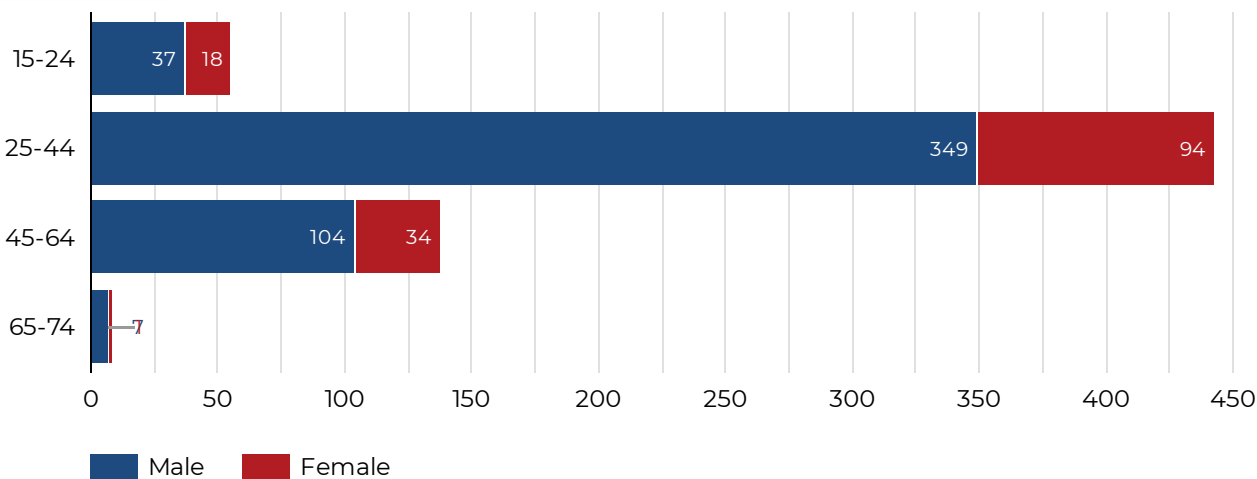
Overdoses in Patients Experiencing Mental Health Crisis by Month

Figure 9



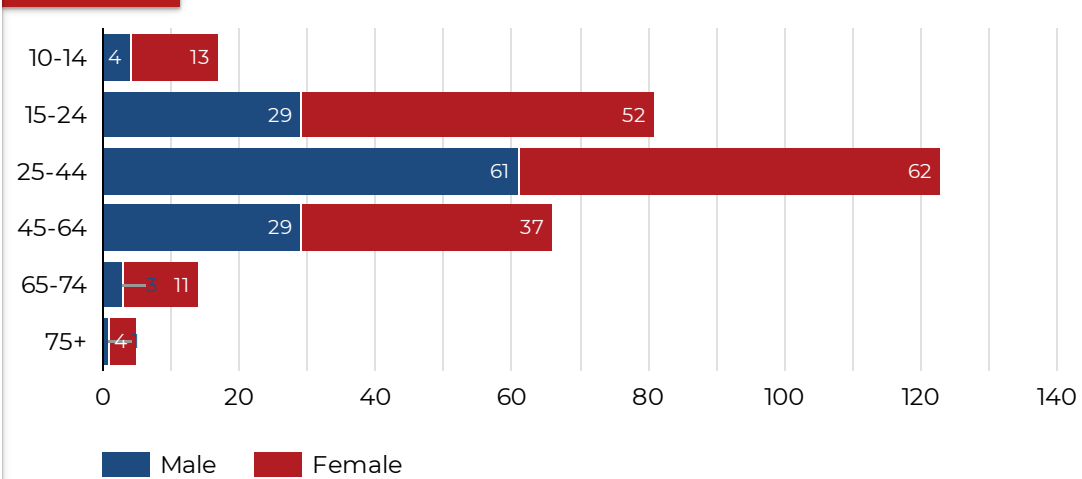
Overdoses in Patients Experiencing Homelessness by Gender & Age Group

Figure 10



Overdoses in Patients Experiencing Mental Health Crisis by Gender & Age Group

Figure 11



Suspected Opiate Overdose Treatment Compliance (January 1st, 2021- December 31st, 2021)

In order to get an in depth look at opioid overdose data, it is important to understand the willingness of patients that are seen and treated by EMS providers to comply with provider recommendations. This provides context and highlights potential obstacles in overdose treatments.

The following data represents patients that go against medical advice (AMA), thereby refuse treatment, or transport to a designated healthcare facility for further treatment. Patients encountered that were determined to be deceased when EMS units arrived are denoted as DOA.

Treated & Transported
2,686

Treated & No Transport
128

Refused Treatment & Transport
52

DOA
146

Figure 12A-B: Count & Proportion of Patients Treated/Transported/Refused for Suspected Opioid Overdose Incidents

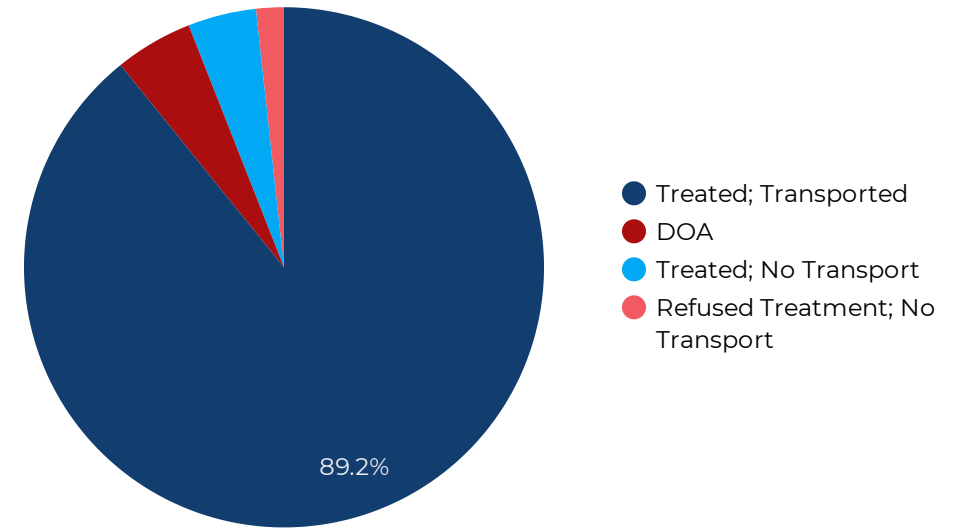
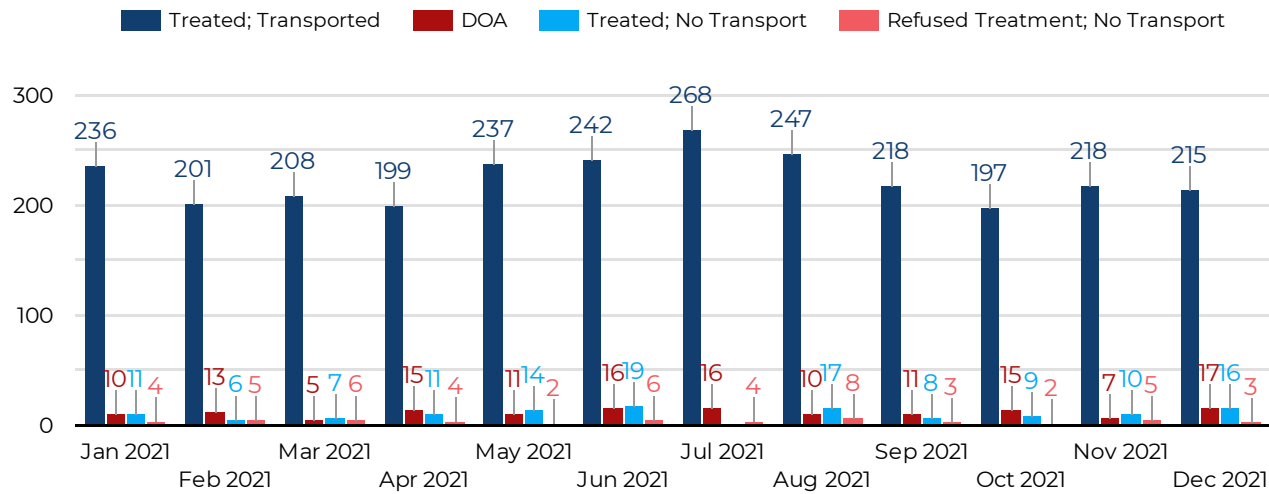


Figure 13: Patients Treated/Transported/Refused for Suspected Opioid Overdose Incidents by Age Group

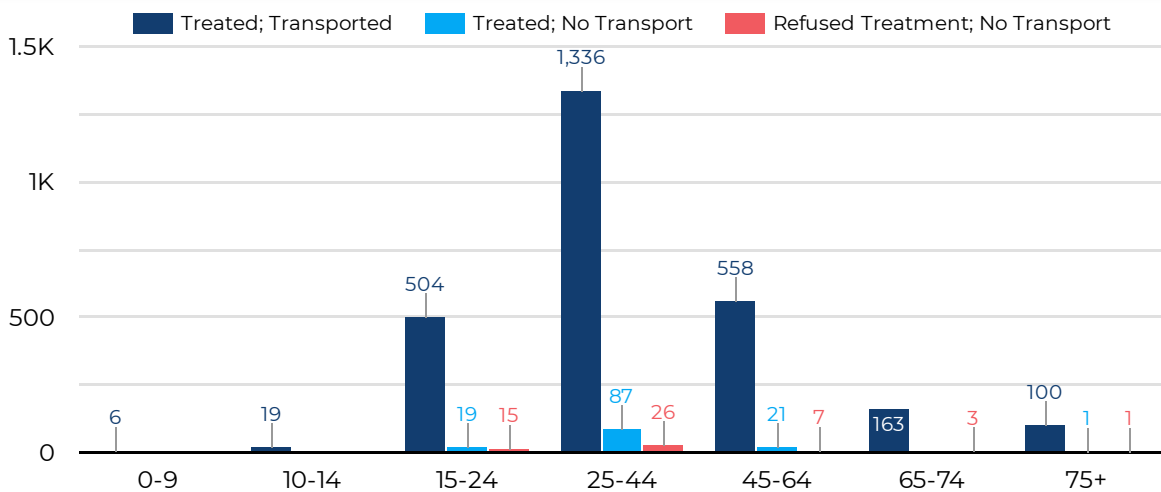
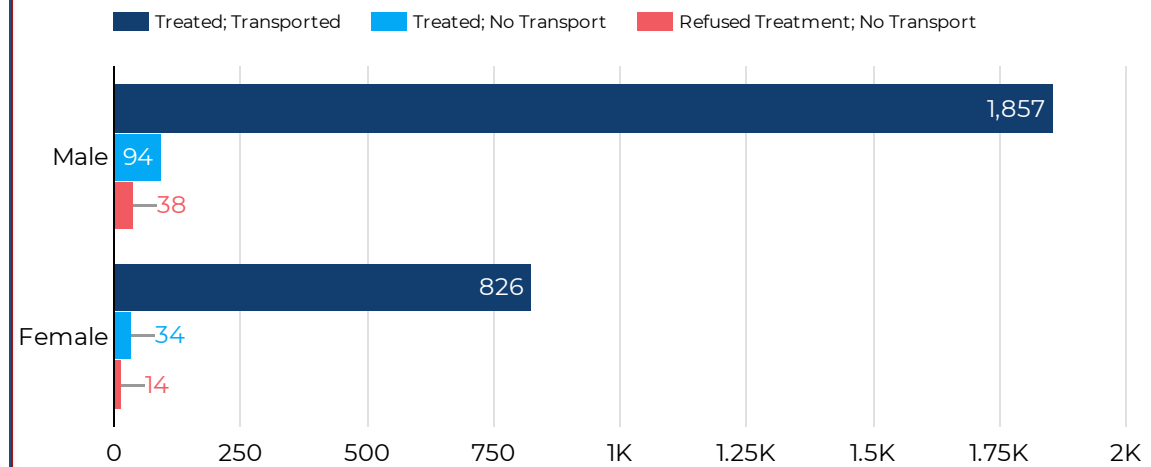


Figure 14: Patients Treated/Transported/Refused by Gender



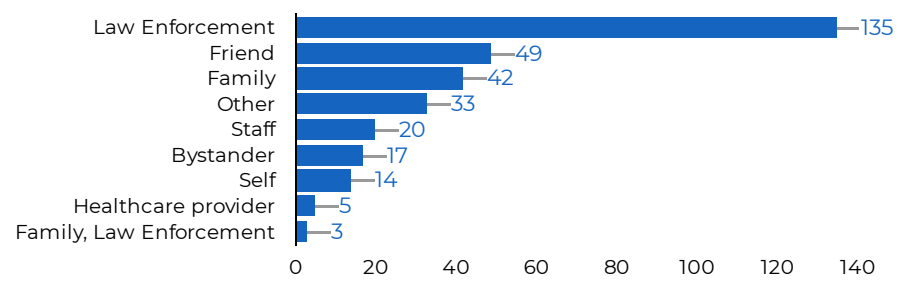
Narcan Administration in EMS Suspected Opioid Overdose Calls (Jan-Dec 2021)

Narcan Administered	No Narcan Administered	Administered by Other
1,959	679	373

Naloxone, aka Narcan, is the name of a generic drug that temporarily reverses the effects of an opioid overdose. First responders in our community have been trained to use narcan when they encounter an overdose while responding to an emergency incident. Understanding its efficacy in suspected EMS overdose incidents can help guide response activities and inform health care providers offering treatment services.

Narcan Administration Prior to EMS Arrival

Figure 16



Narcan Administration in All Suspected Opioid Overdose Calls (15A) & Overdose Fatality Calls (15B)

Figure 15A

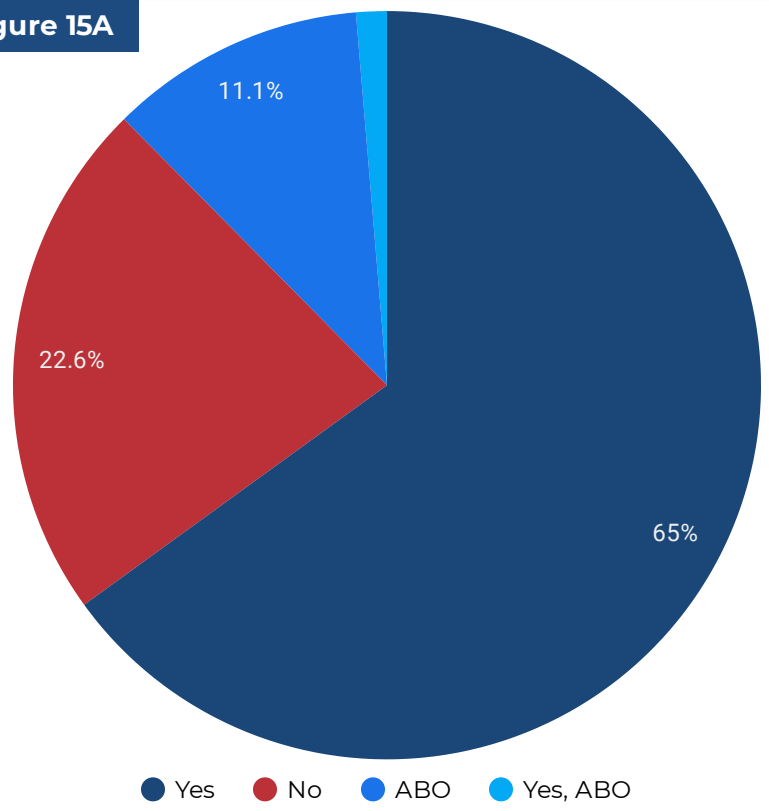
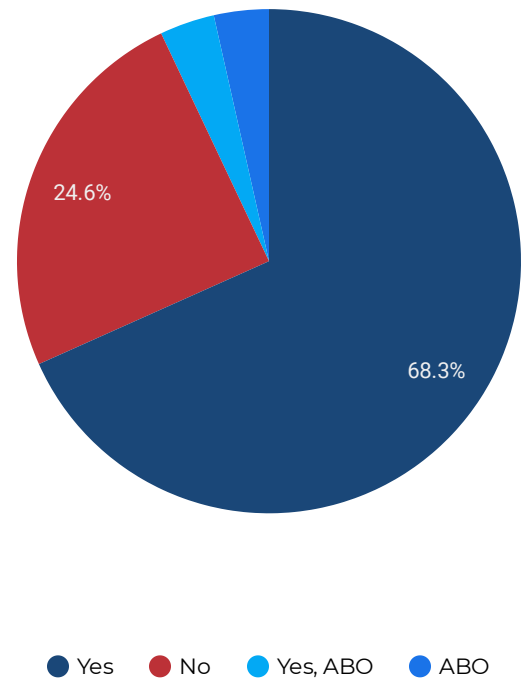
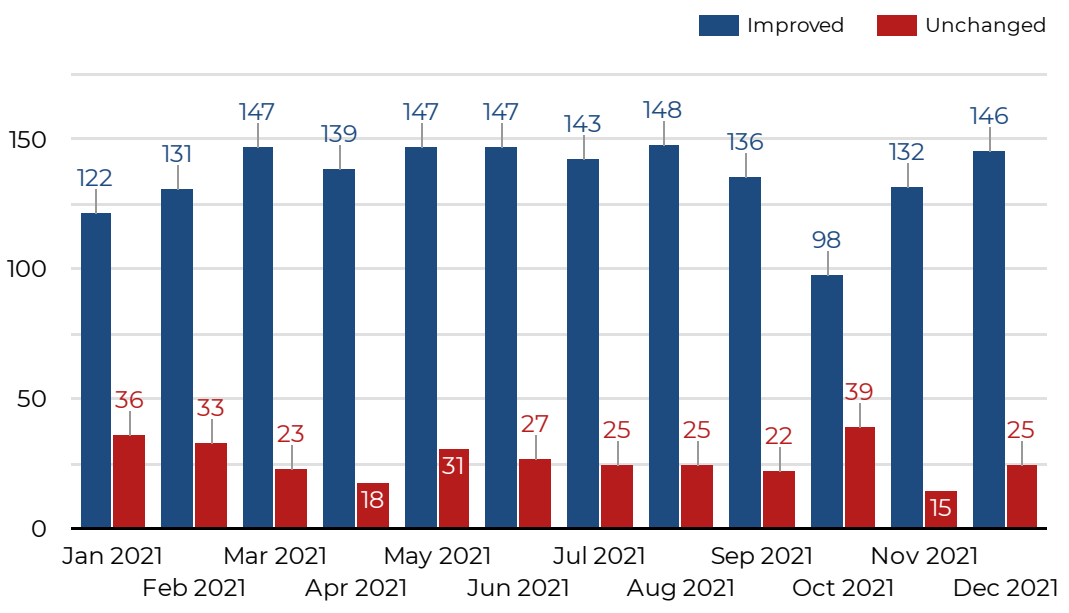


Figure 15B



Patient Response to Narcan Administration

Figure 17



% Patient Response to Narcan Administration

Figure 18

