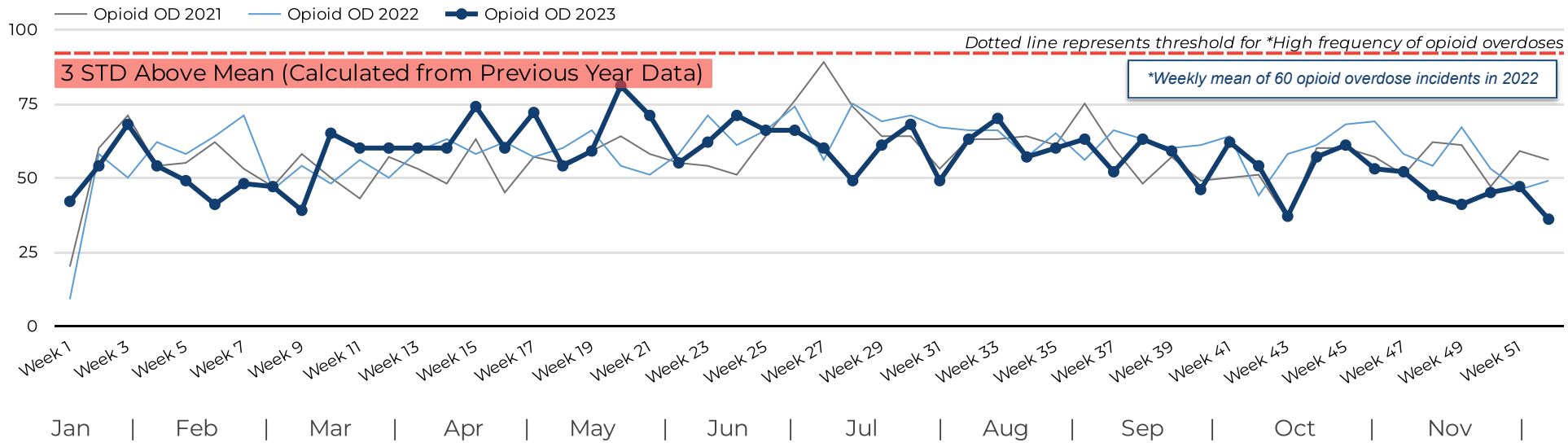


Figure 1 Weekly Comparison of Suspected Opioid Overdose Data (January 1st, 2022-December 31st, 2023)



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
 (Jan 1st 2022- Dec 31st, 2022)

Opiate Overdose 2023
2,955
 ↓ -5.6%

Overdose Fatality 2023
165
 ↑ 9.3%

Comparison to Previous Month

Opiate Overdose Dec 2023
189
 ↓ -19.9%

Overdose Fatality 2023
9
 ↓ -30.8%

Figure 2 Suspected Opioid Overdose & Fatality by Age Group

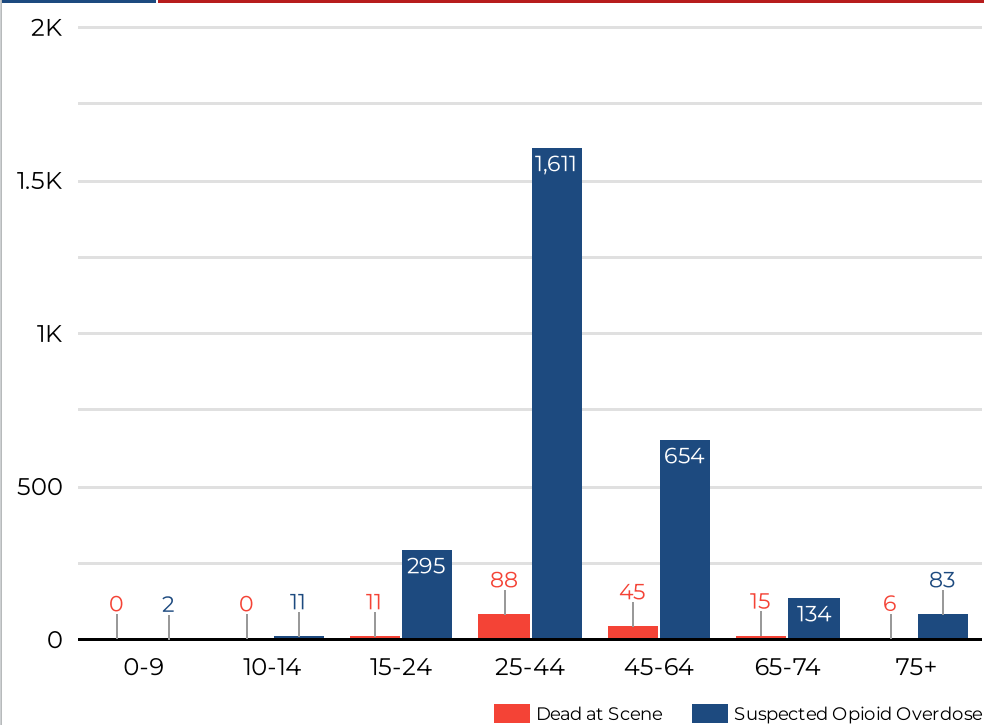
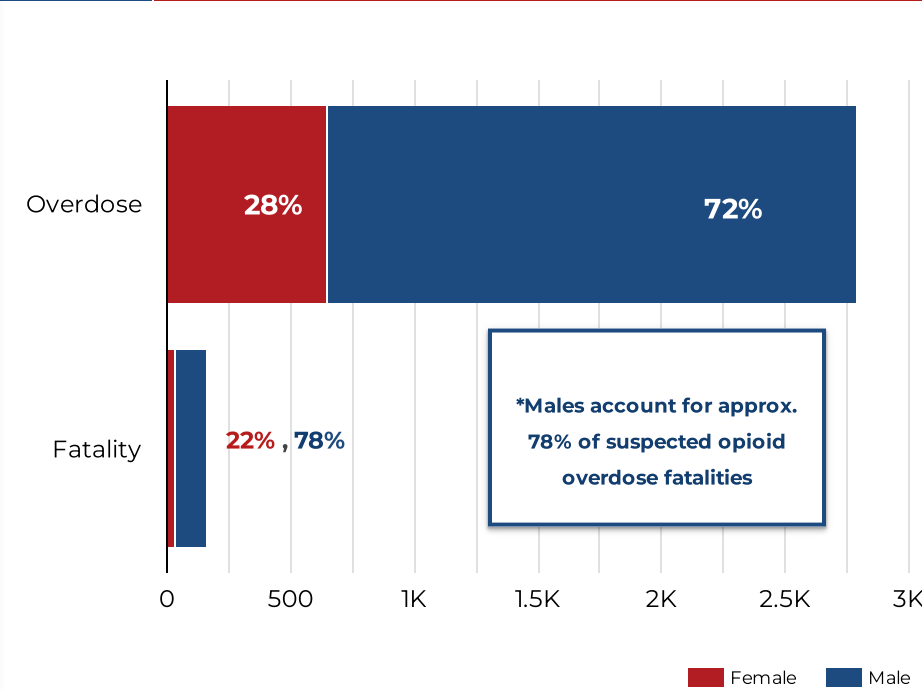


Figure 3 Suspected Opioid Overdose & Fatality by Gender



All Suspected Drug Overdose EMS Incidents (January 1st, 2023- December 31st, 2023)

All Drug Overdoses (Jan-Dec 2023)

3,949

↓ -7.6%

Drug Overdose Fatality (Jan-Dec 2023)

189

↑ 6.8%

Figure 4 All Suspected EMS Overdose Records by City

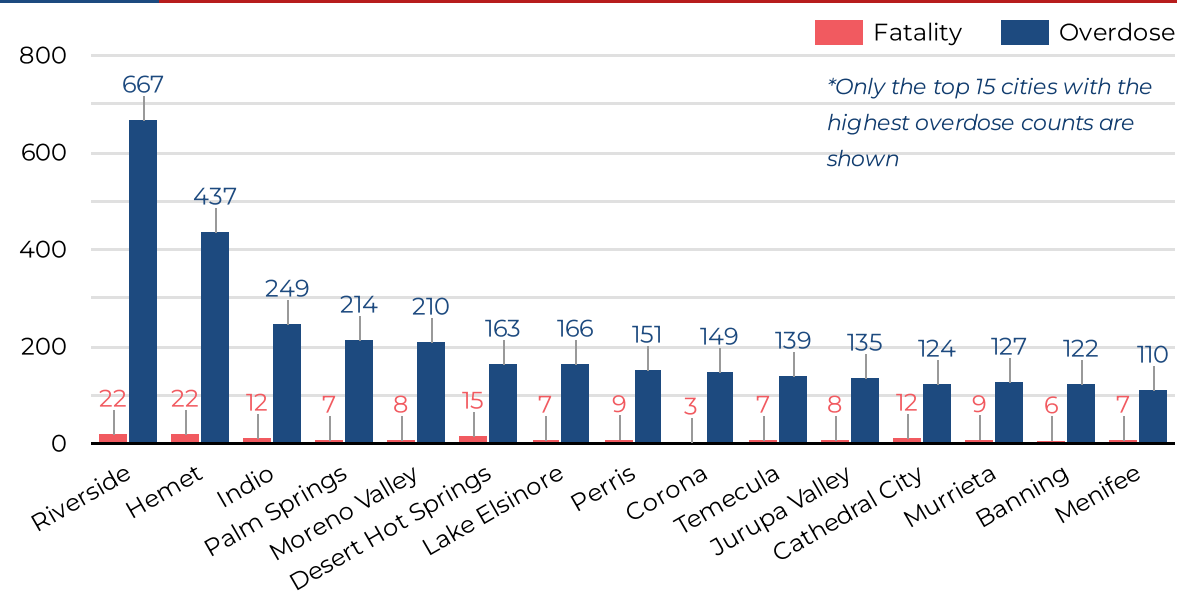
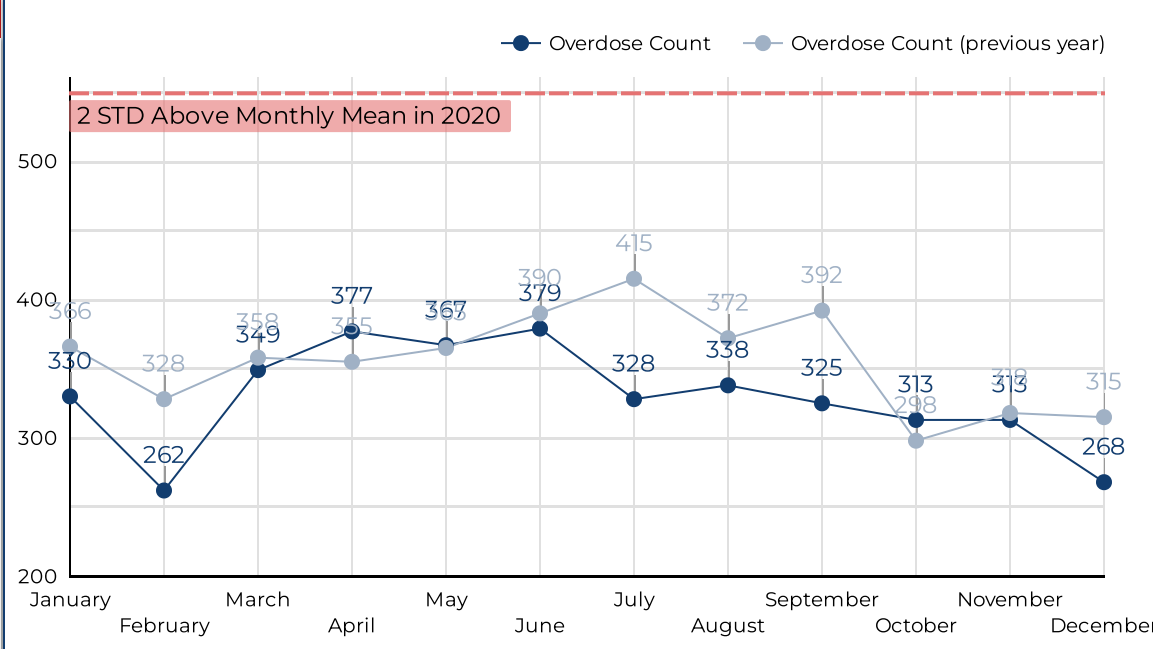
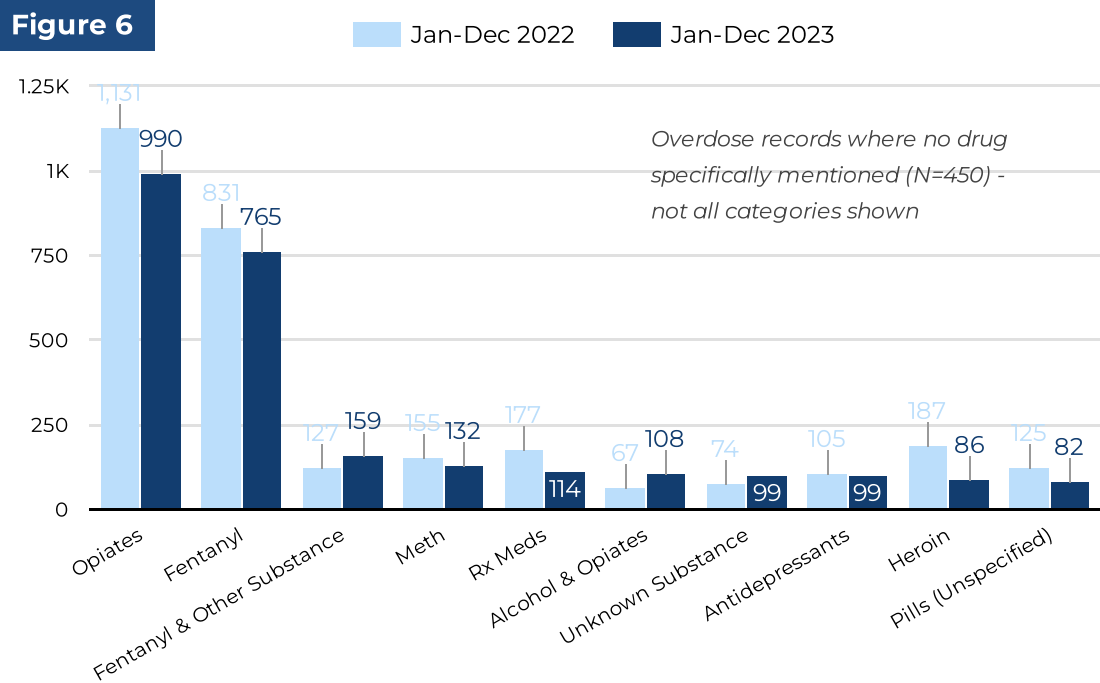


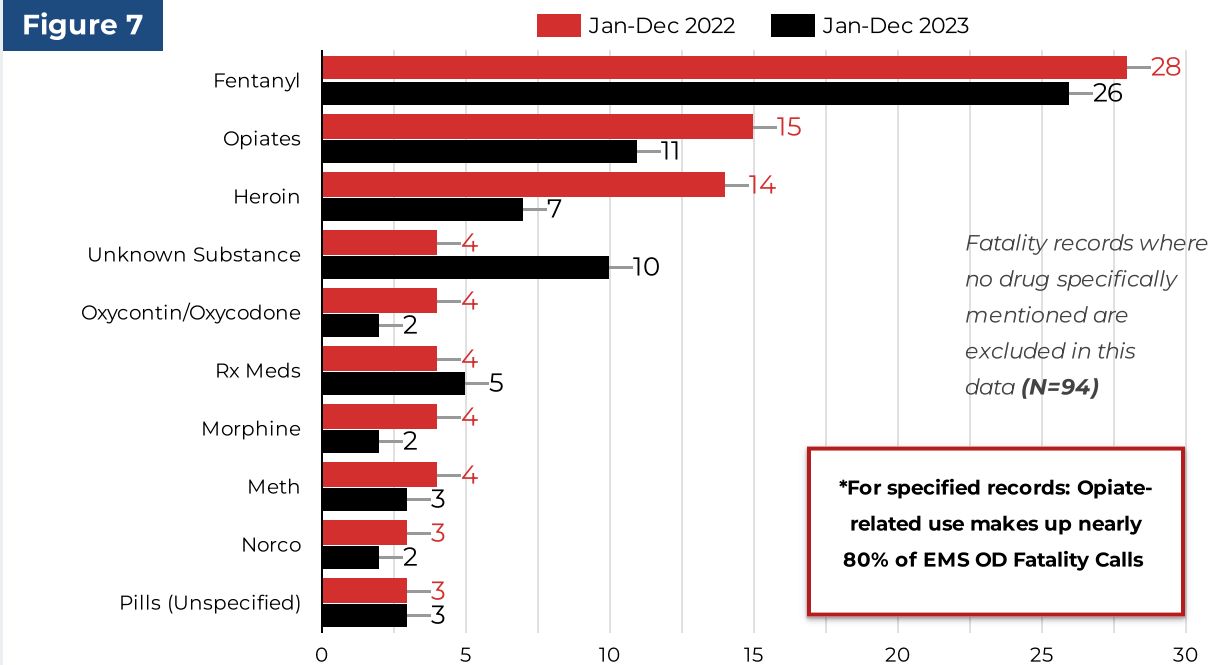
Figure 5 All Suspected EMS Overdose Records (2022-2023 Comparison)



Type of Drug Mentioned in Overdose Calls



Type of Drug Mentioned in Fatal Overdose Calls



***For specified records: Opiate-related use makes up nearly 80% 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, 2023-December 31st, 2023)

Overdose-Homelessness Records

940

Homelessness-Overdose Fatality

24

Mental Health-Overdose Records

195

Mental Health-Overdose Fatality

0

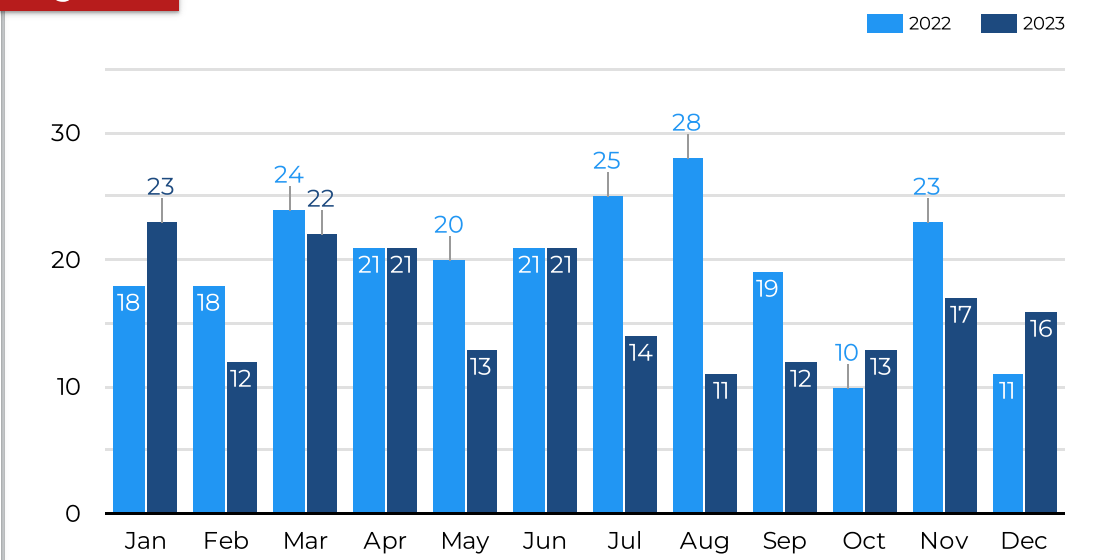
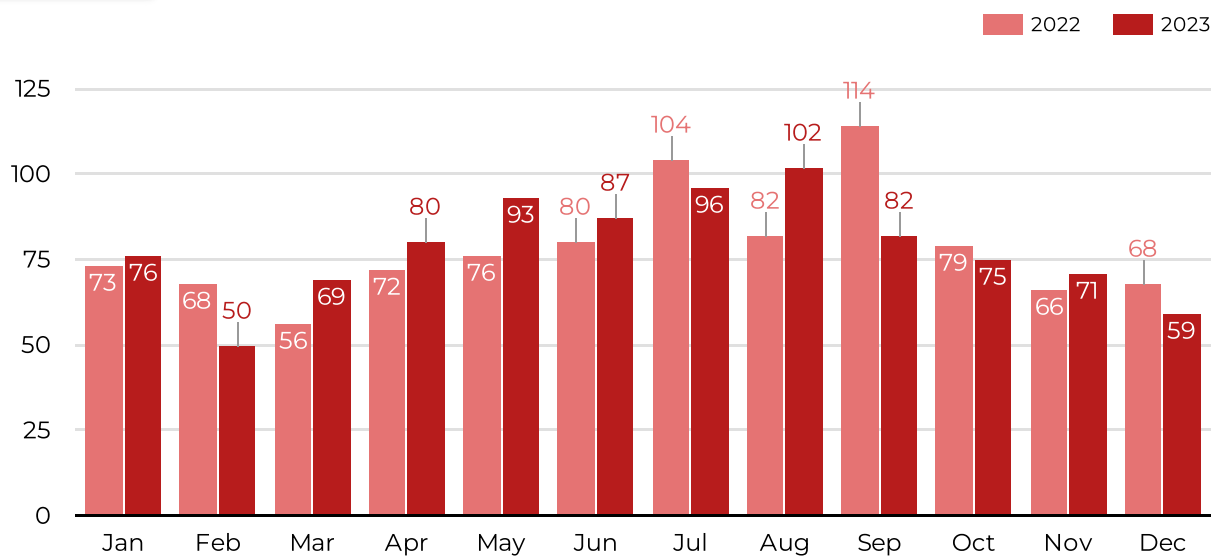
According to California Welfare and Institutional Code (WIC), a 5150 (mental health crisis) enables law enforcement and designated medical professionals to place individuals posing imminent risk to self or others on involuntary 72-hour hold. From 1/1/2023-12/31/2023, Riverside County Emergency Medical Services (EMS) providers responded to an average of 16 WIC-5150 emergency and non-emergency transport overdose calls each month so far in 2023. 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

Overdoses in Patients Experiencing Mental Health Crisis by Month

Figure 8

Figure 9

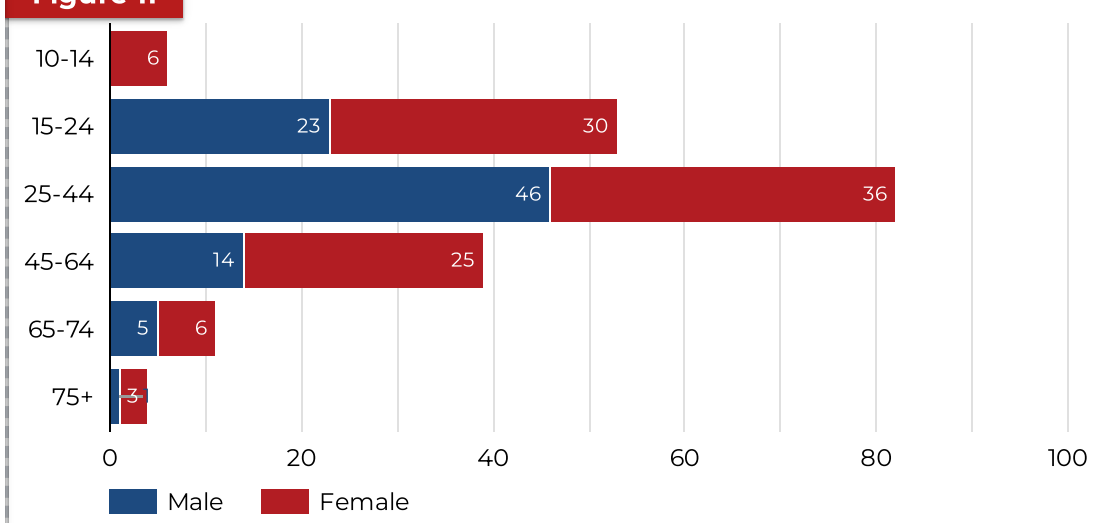
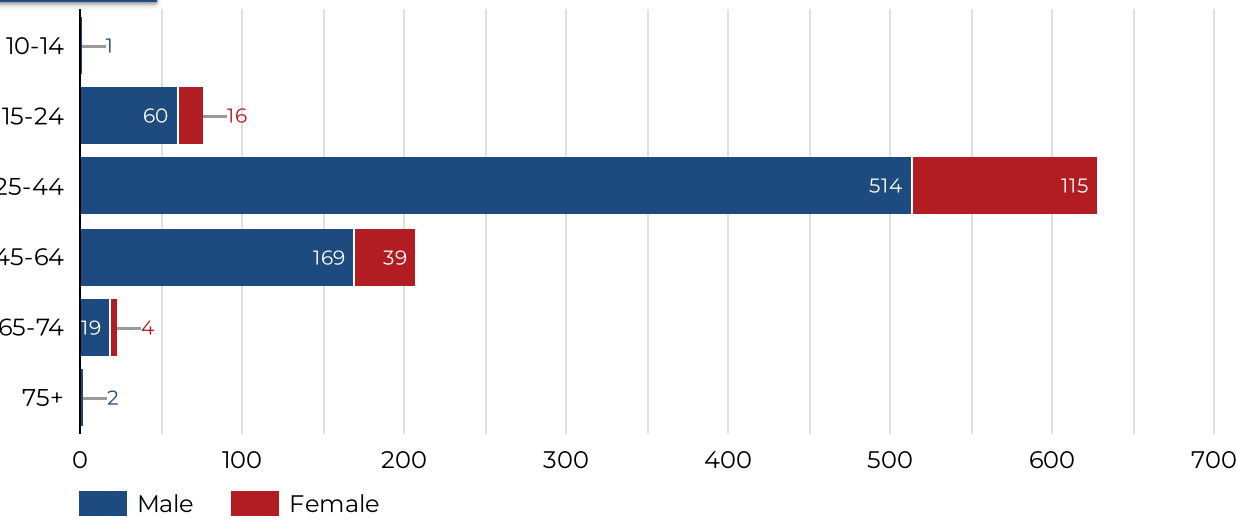


Overdoses in Patients Experiencing Homelessness by Gender & Age Group

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

Figure 10

Figure 11



Suspected Opiate Overdose Treatment Adherence (January 1st-December 31st, 2023)

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.

Treated & Transported
2,530

Treated & Released (AMA)
196

Refused Treatment & No Transport
62

Refused Treatment & Transported
1

Dead at Scene
163

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

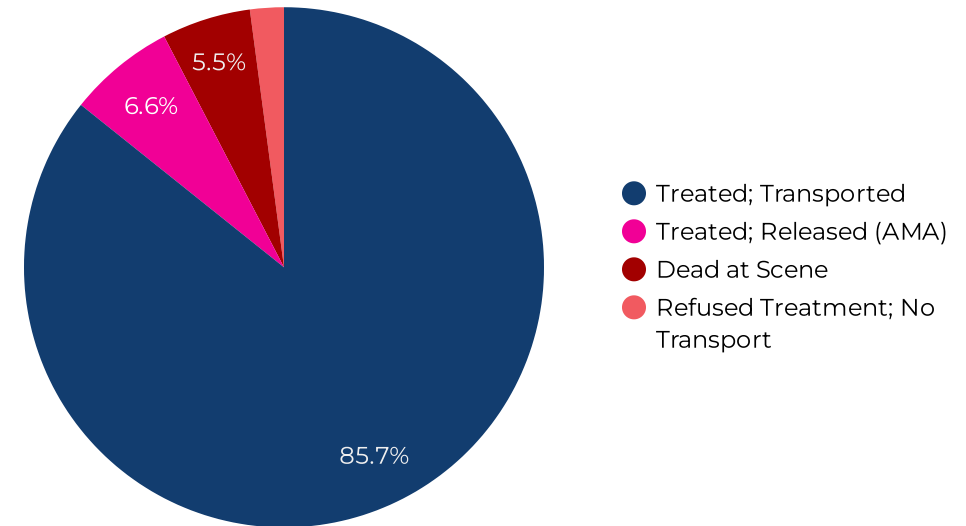
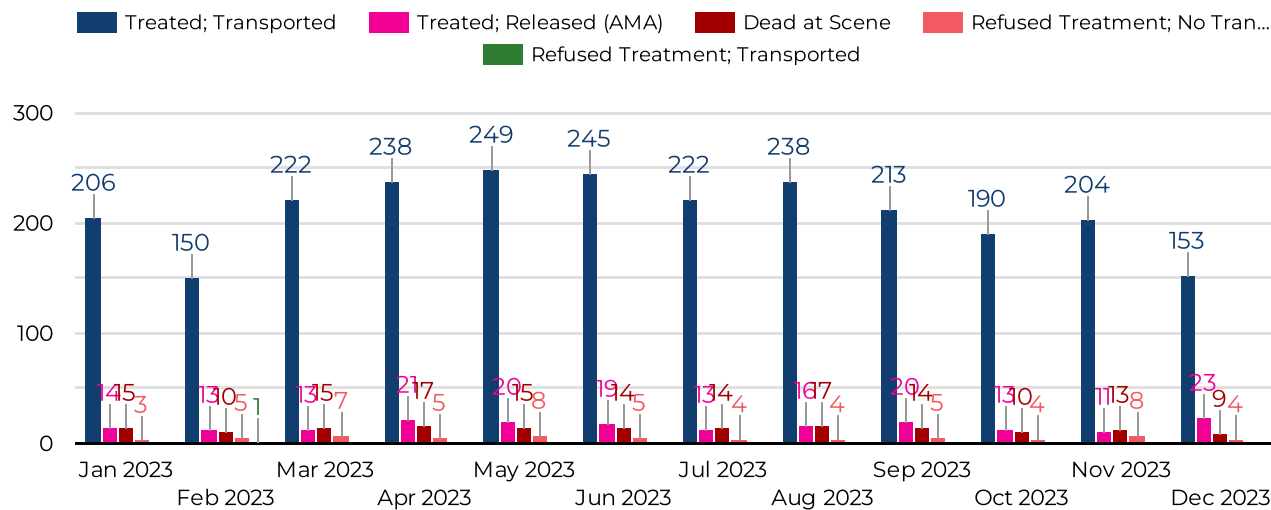


Figure 13: Patients Treated/Transported/Refused for Suspected Opioid Overdose Incidents by Age Group

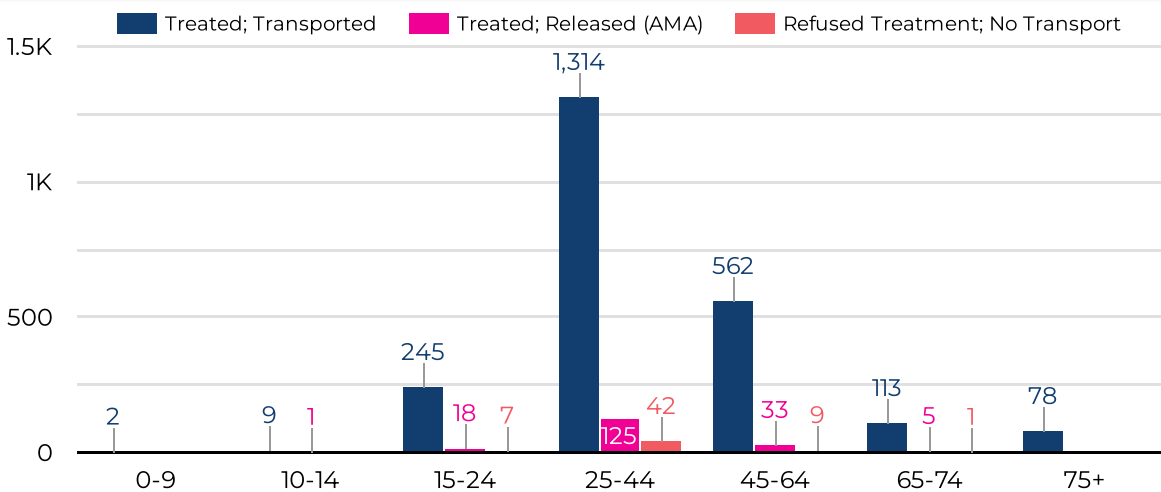
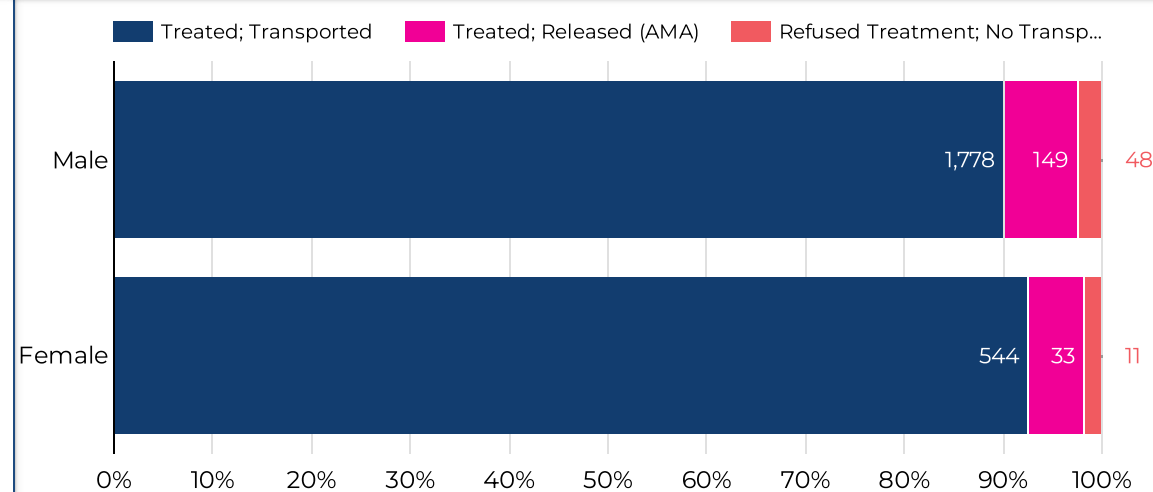


Figure 14: Patients Treated/Transported/Refused by Gender

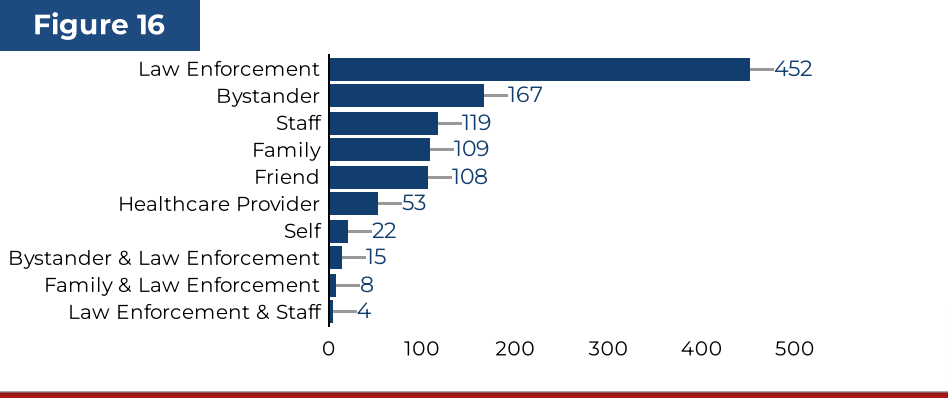


Naloxone Administration in EMS Suspected Opioid Overdose Calls (Jan-Dec 2023)

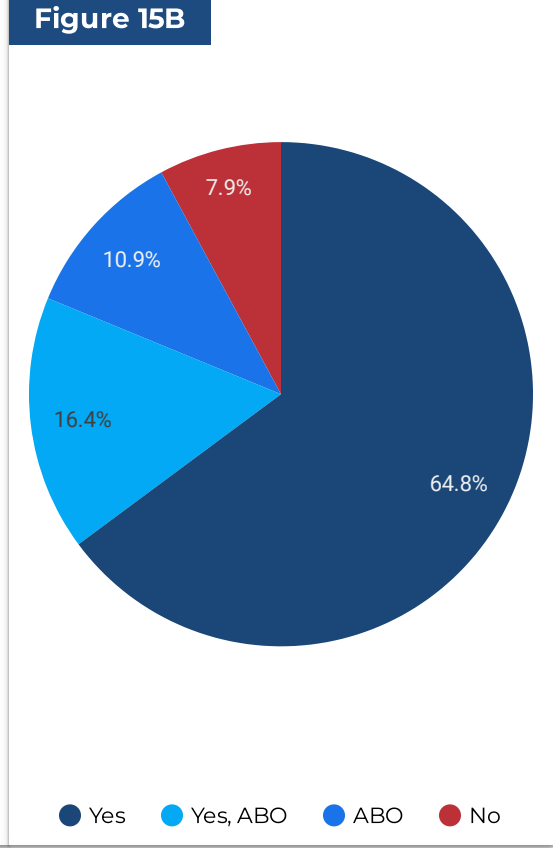
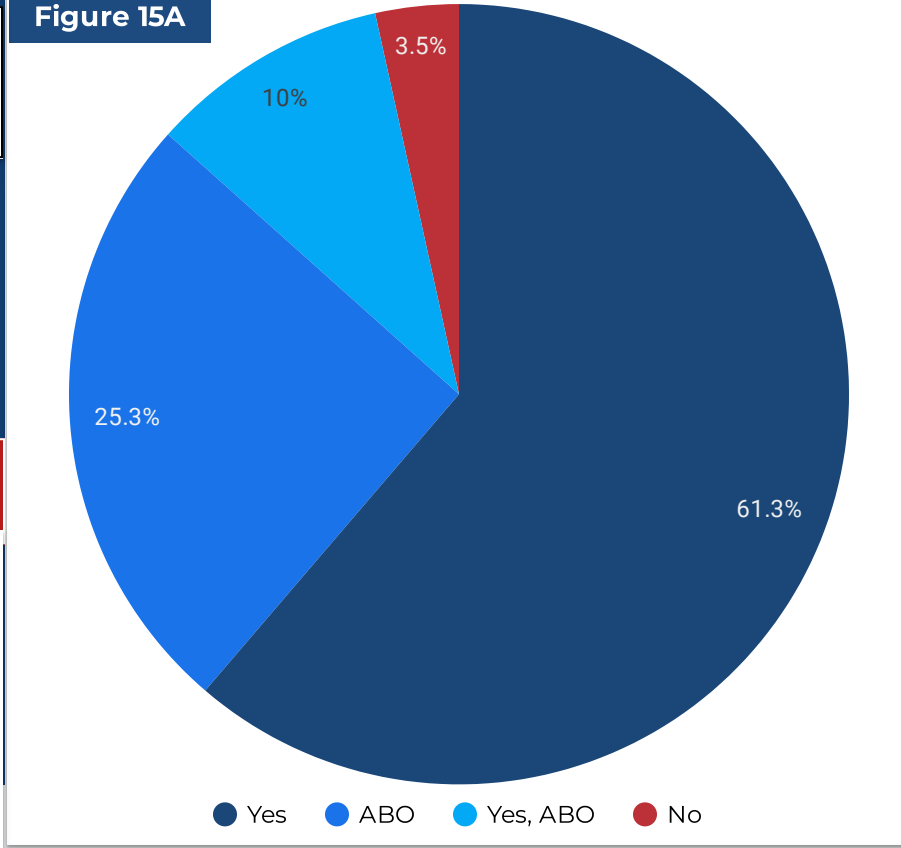
Narcan Administered by EMS 2,103	No Narcan Administered 98	Administered by Other 1,060
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Naloxone, aka Narcan, is the name of a generic drug that temporarily reverses the effects of an opioid overdose. First responders in our community have been trained 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.

Naloxone Administration Prior to EMS Arrival

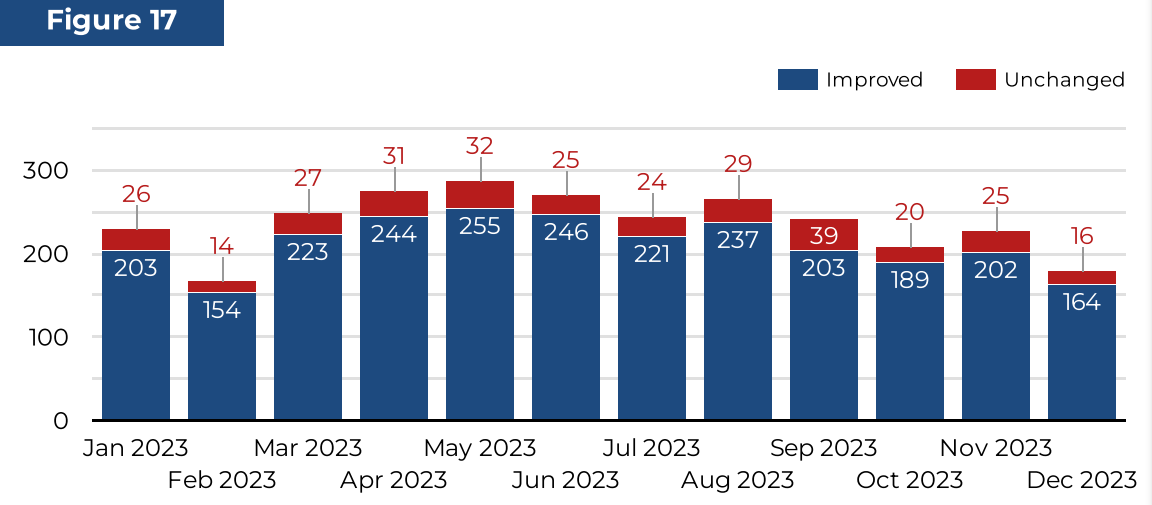


Naloxone Administration in All Suspected Opioid Overdose Calls (15A) & Overdose Fatality Calls (15B)



**ABO (administered by other) refers to naloxone administered by someone other than EMS prior to EMS arrival*
**Yes, ABO refers to naloxone administered by EMS as well as prior to arrival*

Patient Response to Naloxone Administration



% Patient Response to Naloxone Administration

