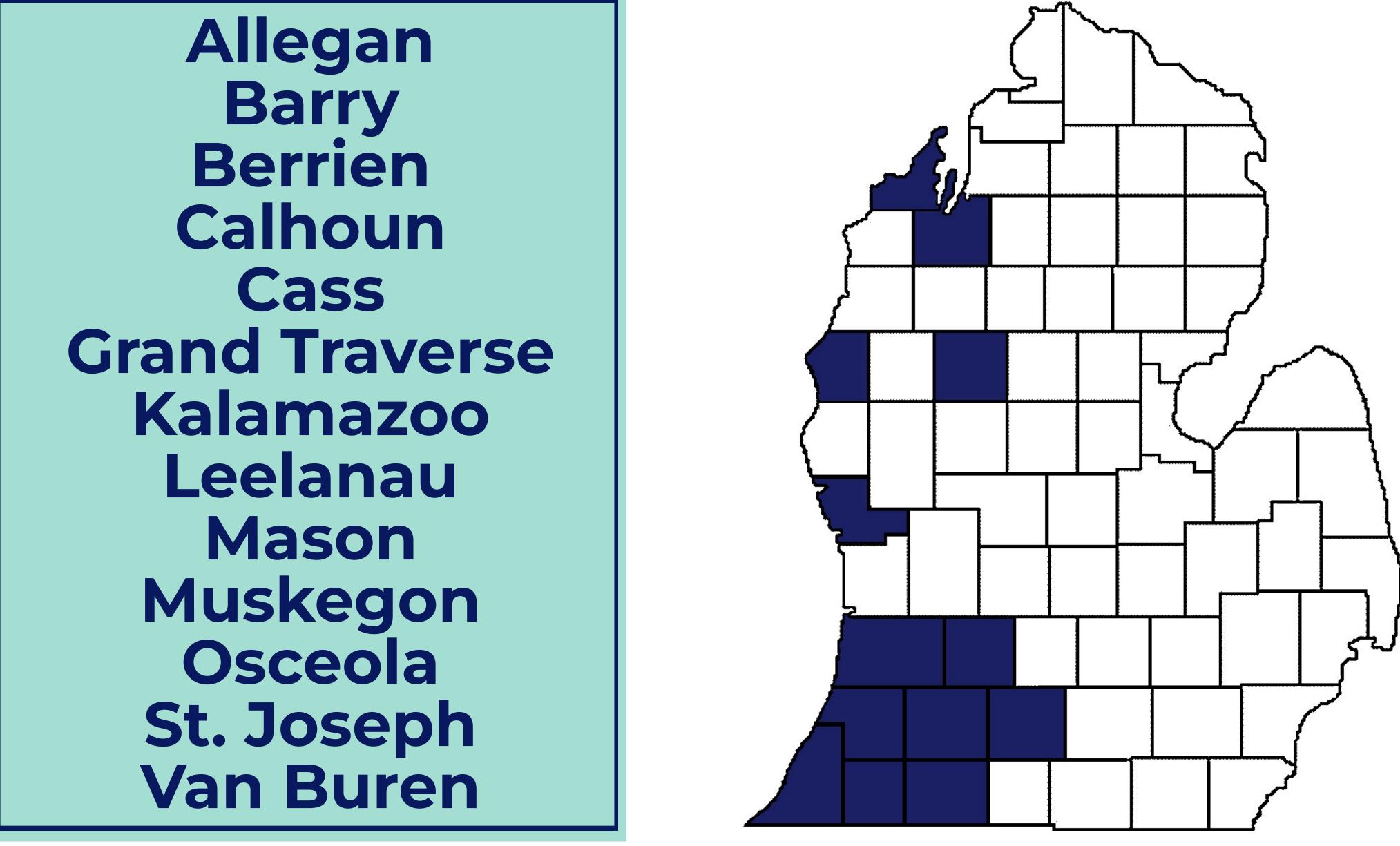
Third Quarter Report, 2021

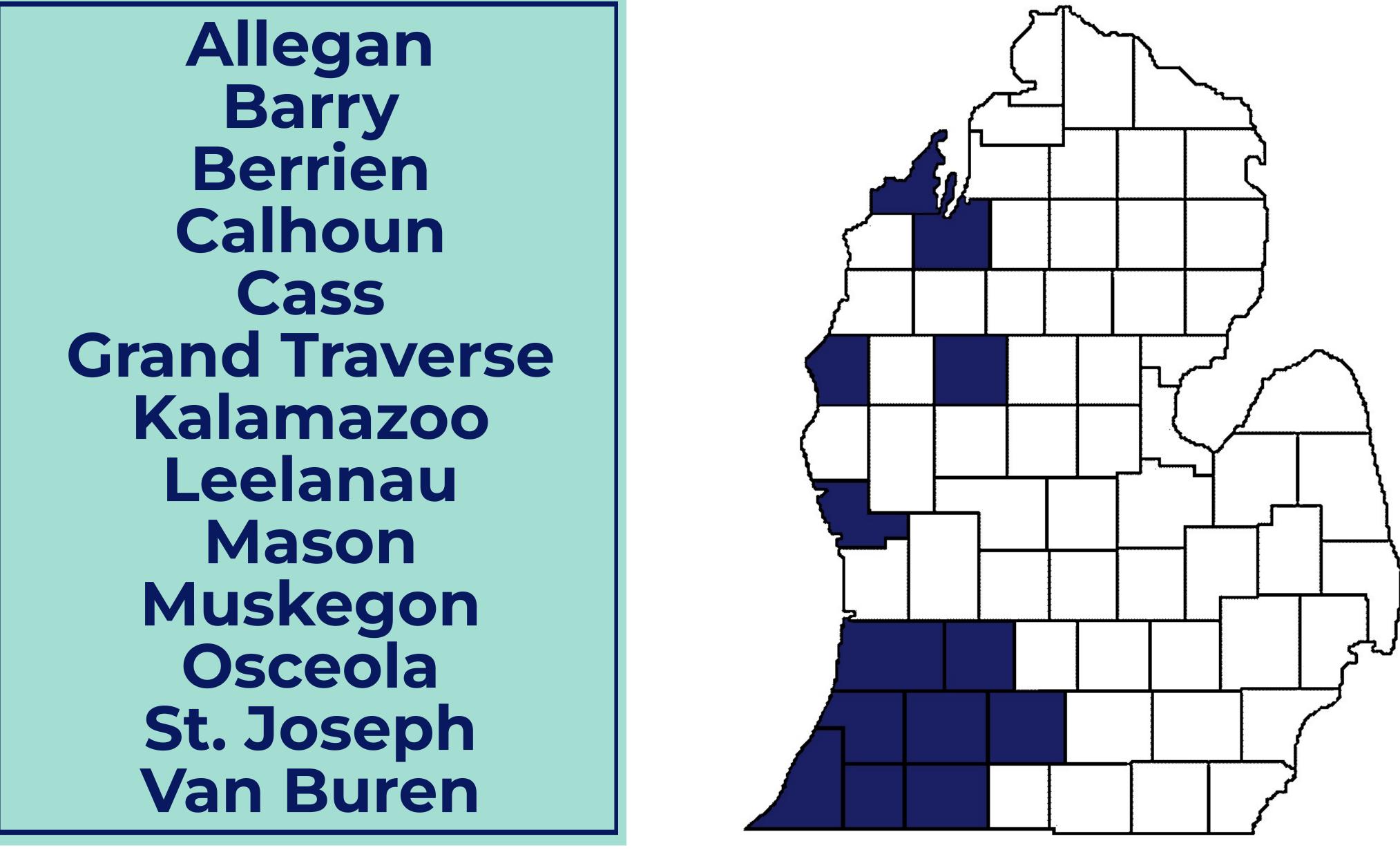
July to September, 2021

Deaths Related to Opioids and Other Drugs

Medical Examiner Office

Counties covered in this report:





Purpose:

This data was collected from 13 counties served by the Office of the Medical Examiner (MEO) in the Department of Pathology at Western Michigan University Homer Stryker School of Medicine (WMed). Data includes deaths where drugs were the immediate cause of death. This report is meant to provide up to date statistics to those involved in efforts to reduce the number of drug-related deaths. Please note all data is preliminary in quarterly reports.

Sections with the following headings are approximations and frequencies may be higher than what is reported: Health Factors, Mental Health Factors, Social Factors, and Decedent Substance Use History.

Sources: All data was extracted from a Medical Examiner database, law enforcement (LE) and EMS reports, death certificates, obituaries, STORM (Swift Toxicology of Overdose-Related Mortalities) results, toxicology reports, and autopsy reports.

Please contact Chloe Bielby for additional information at <u>chloe.bielby@med.wmich.edu</u>

Office of the Medical Examiner

Deaths Related to Opioids and Other Drugs

Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Total Drug-Related Deaths[†]

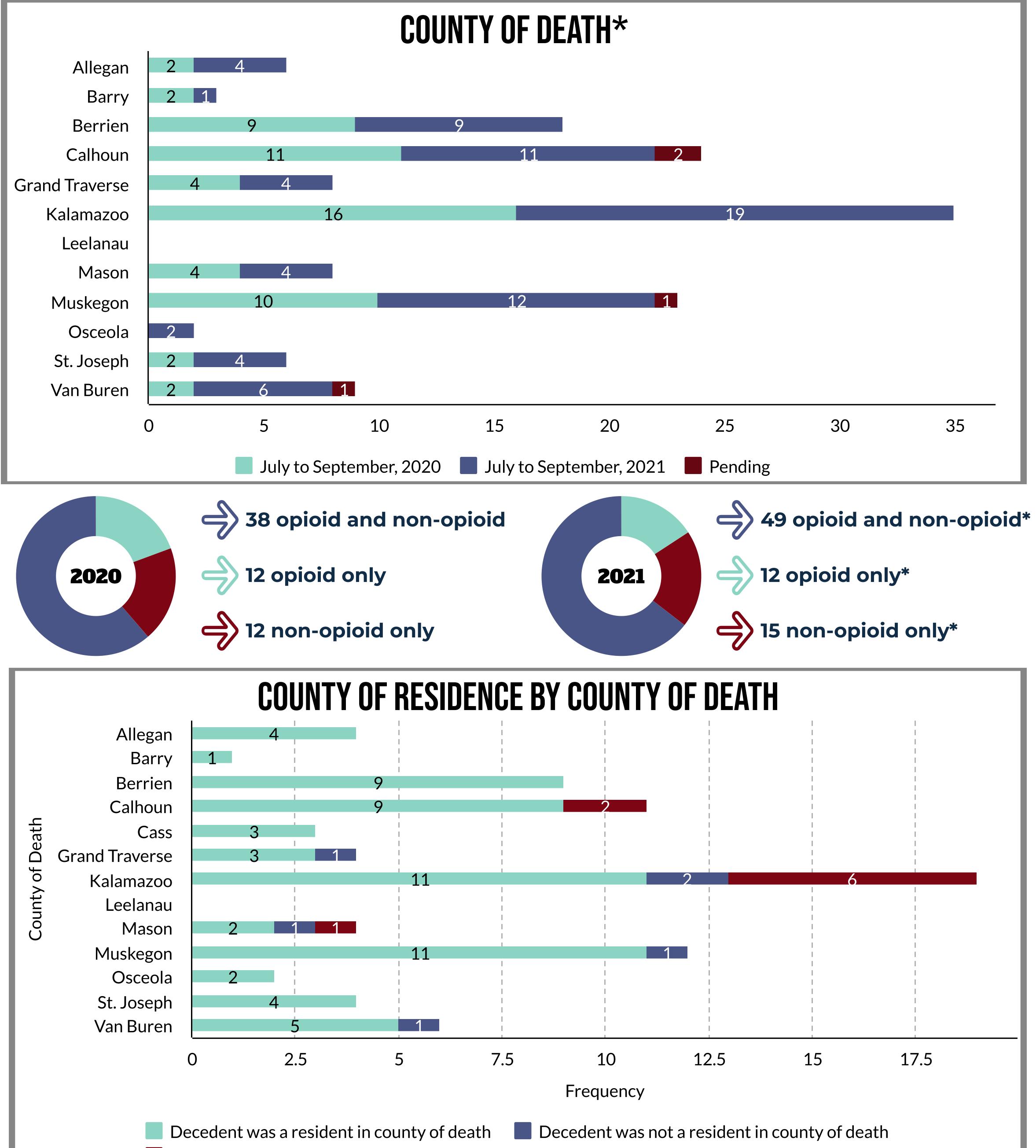
July to September, 2020

62 deaths

July to September, 2021

76 deaths*





Decedent was experiencing homelessness at time of death

[†] There are 4 pending suspected drug-related deaths at the time of report being published. * Deaths occurring in Cass County (n=3) are excluded where indicated by asterik <u>only</u> for accurate comparison to 2020.

Kalamazoo (n=19)

Office of the Medical Examiner

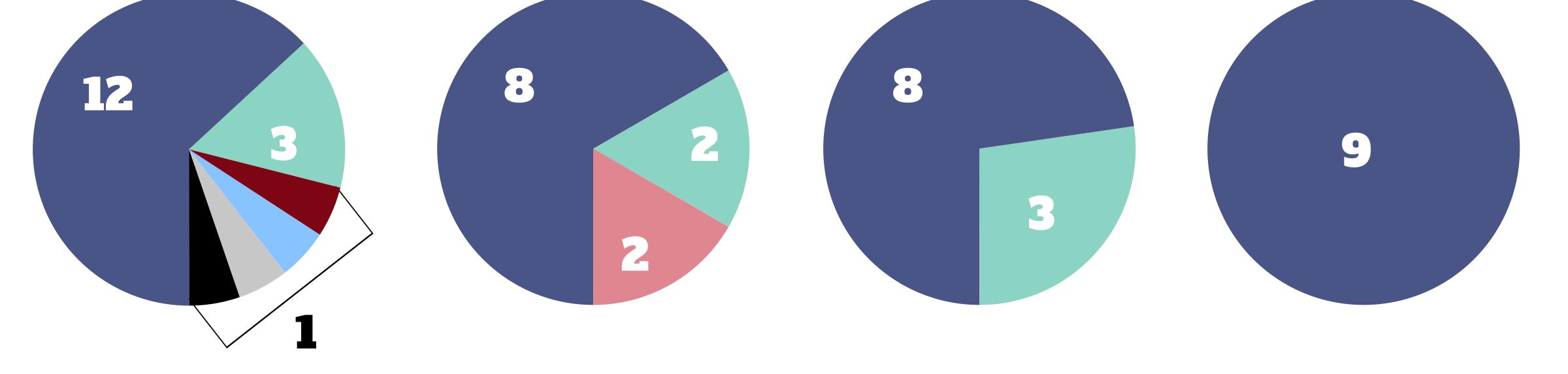
Berrien (n=9)

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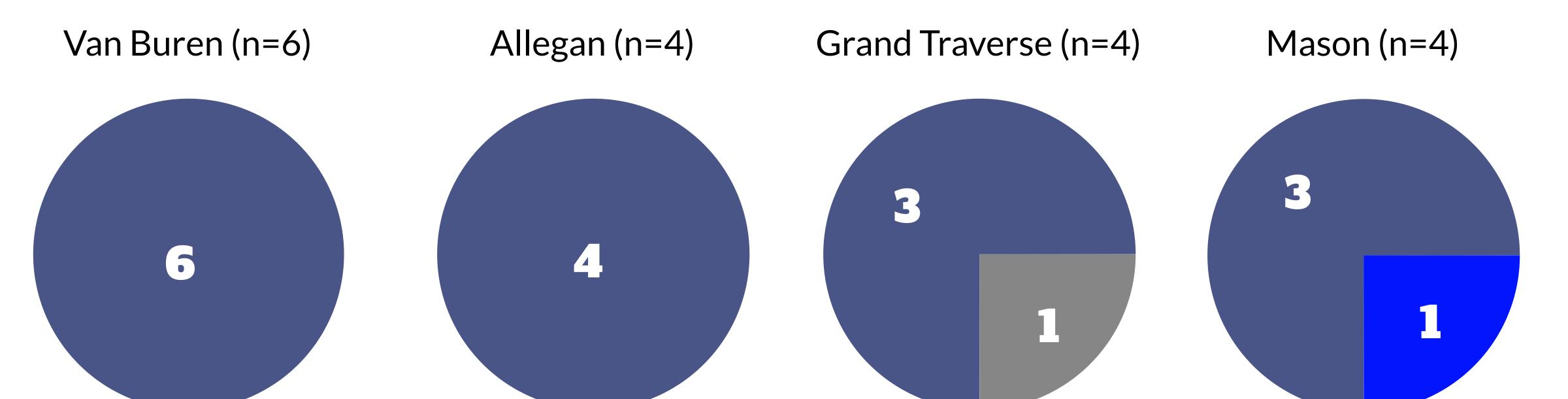
Naloxone Administration

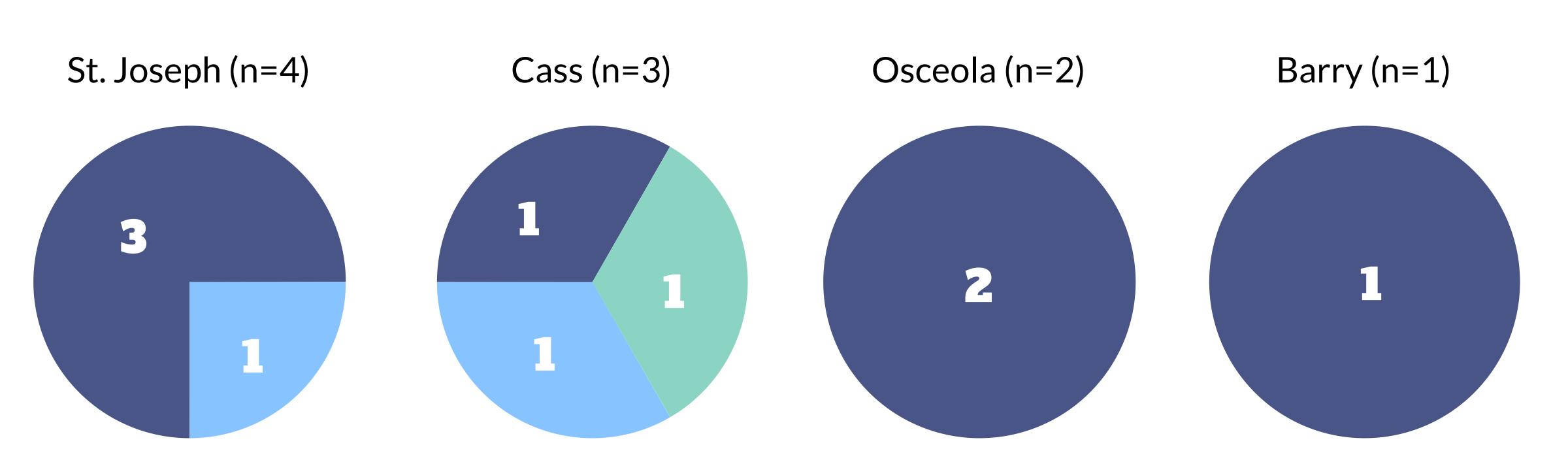




Calhoun (n=11)

Muskegon (n=12)





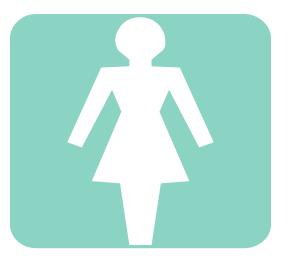
Office of the Medical Examiner

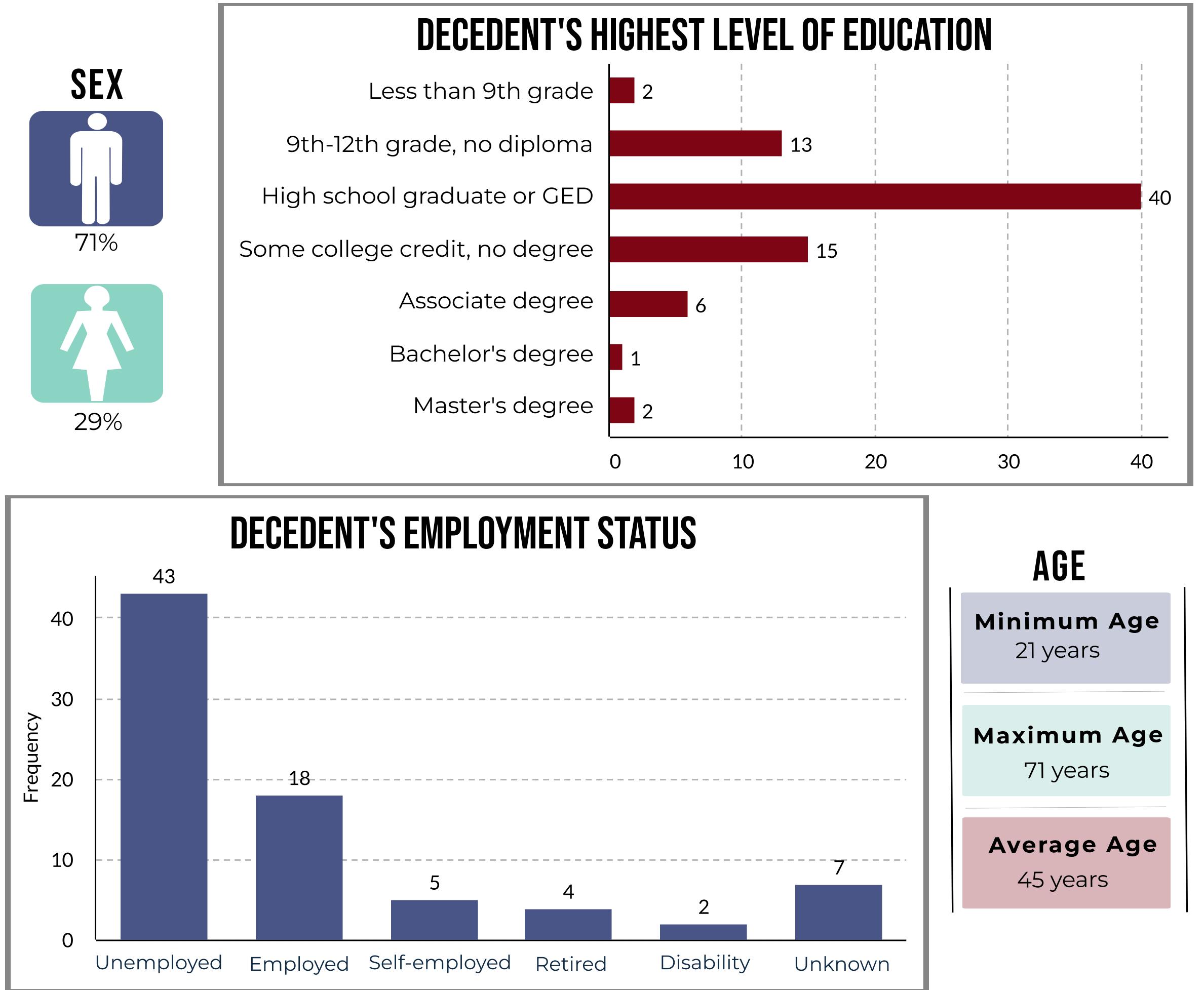
Deaths Related to Opioids and Other Drugs

Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Demographics

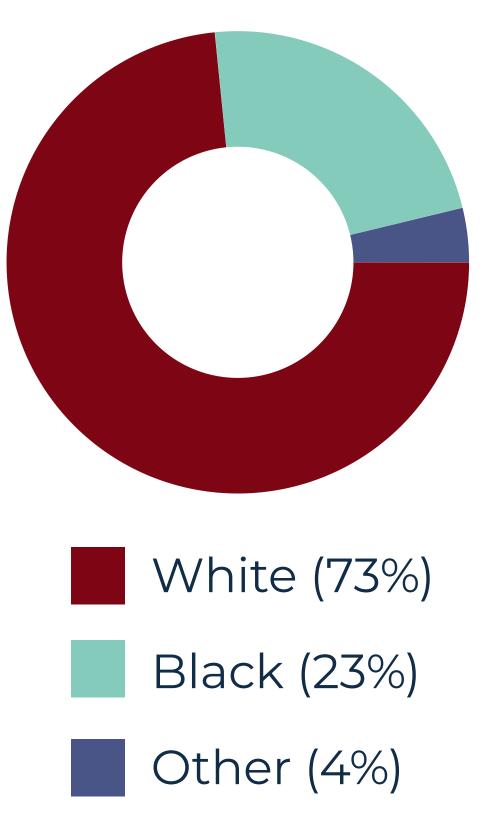
SEX



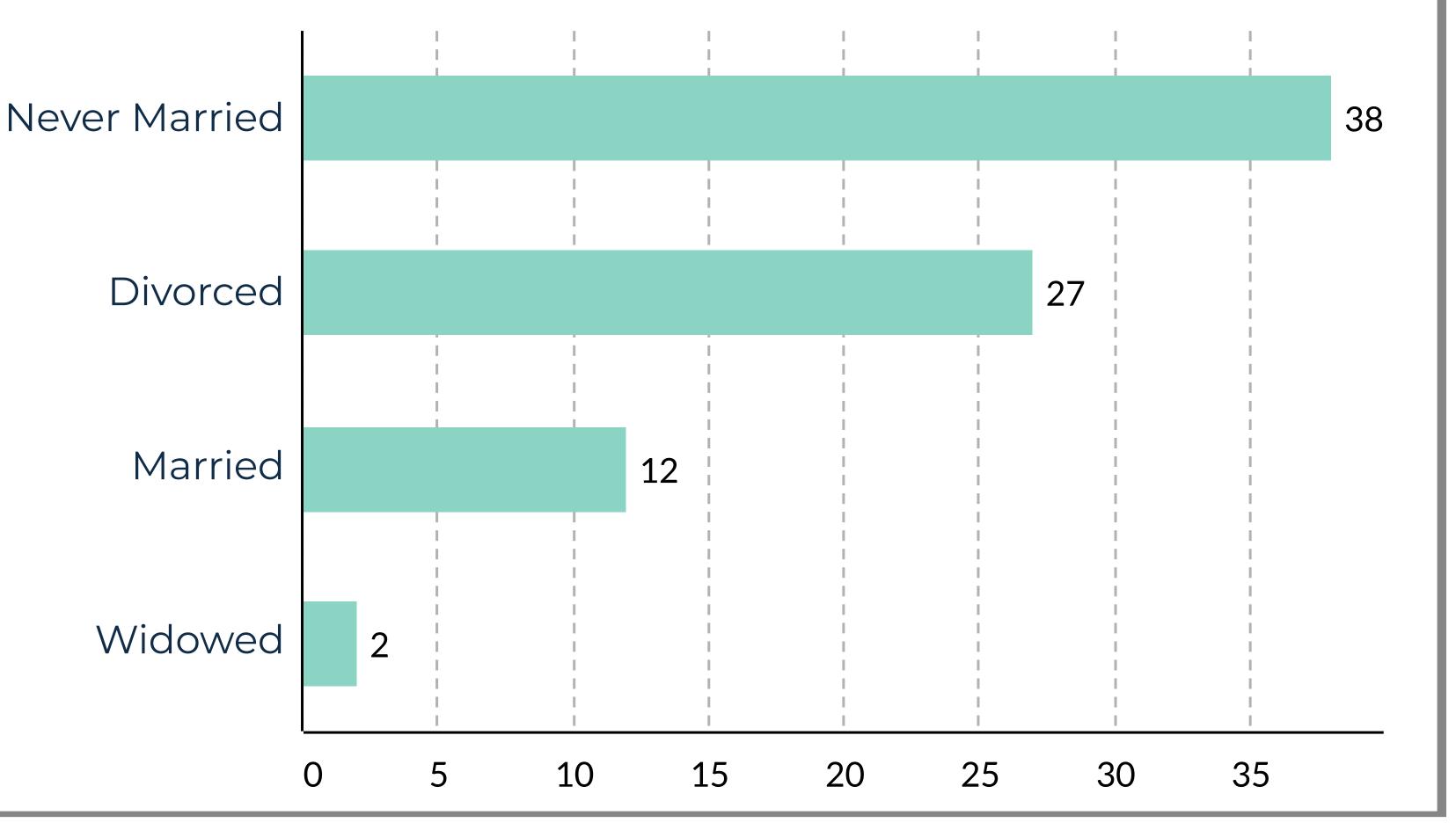




RACE



DECEDENT'S MARTITAL STATUS

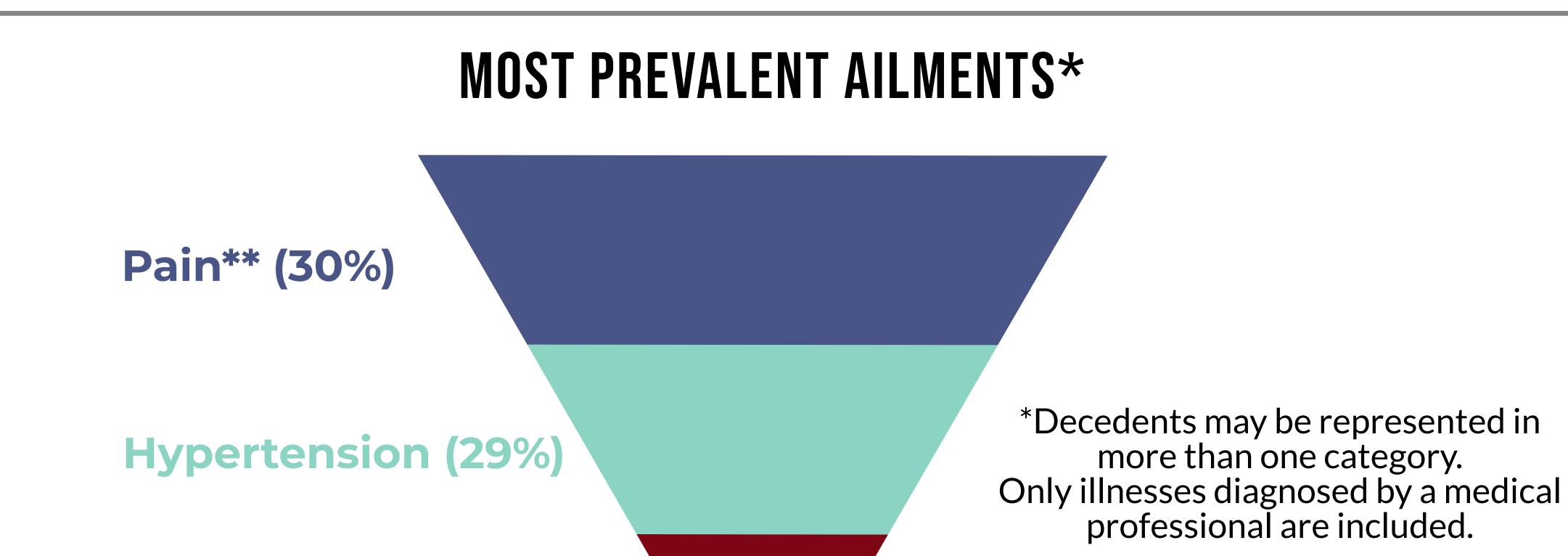


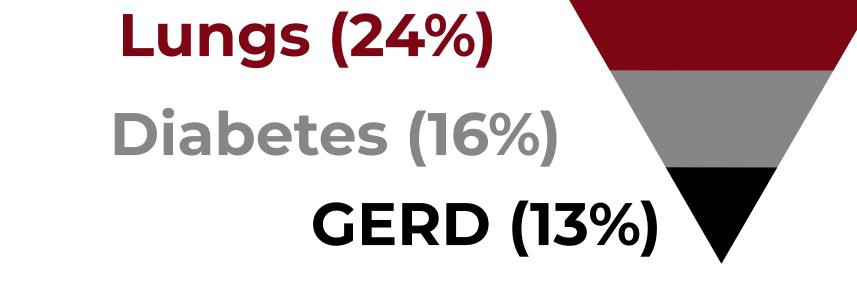
Office of the Medical Examiner

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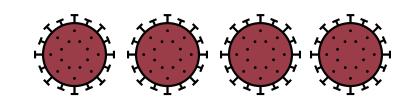
Health Factors





**Pain includes chronic pain (knee, back, etc.), neuropathy, arthritis, fibromyalgia and chronic migraines.

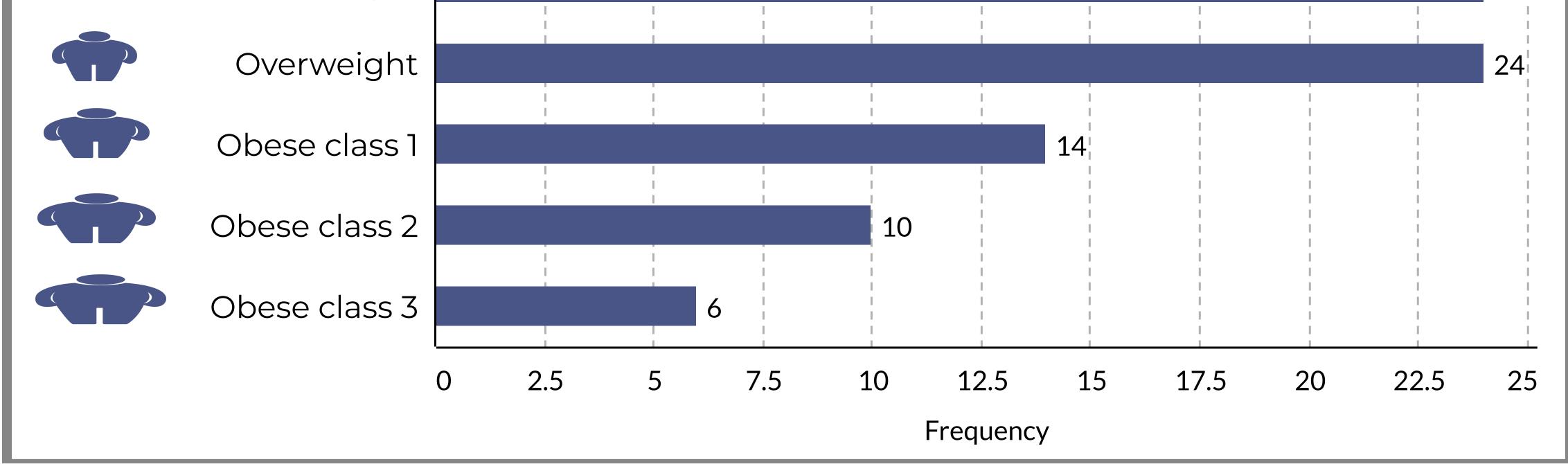
***Lungs includes asthma, COPD, and emphysema

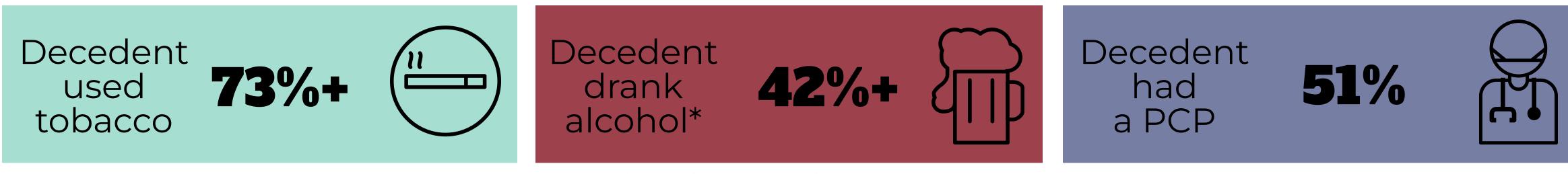


At least 10 decedents were Hepatitis C positive

At least 7 of these decedents were known to use drugs intravenously

BODY MASS INDEX (BMI)												
Ŷ	Underweight	1										
	Normal weight			1	I		I				1	24





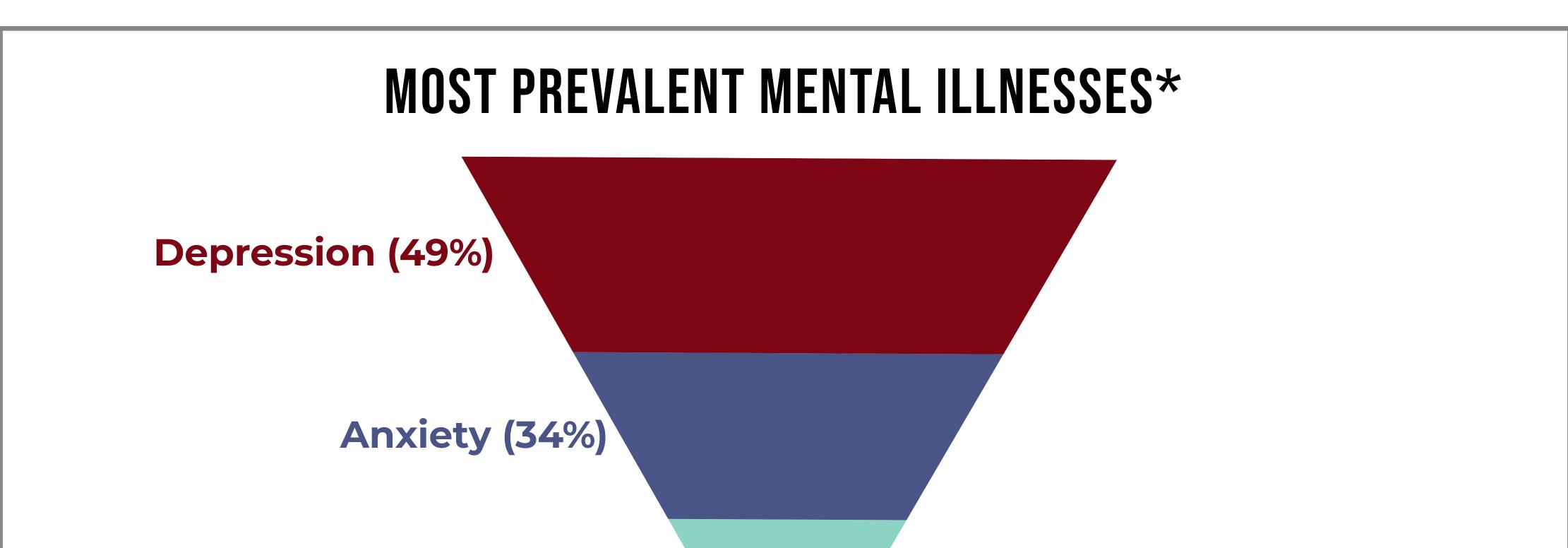
*Moderate to heavy use

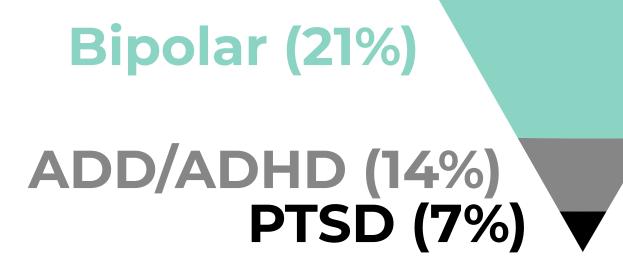
Office of the Medical Examiner

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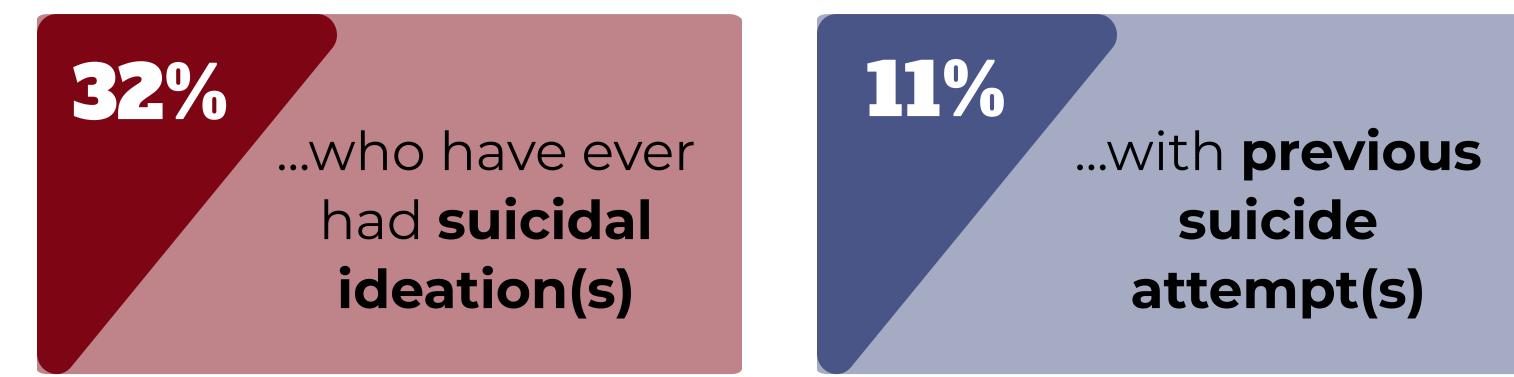
Mental Health Factors



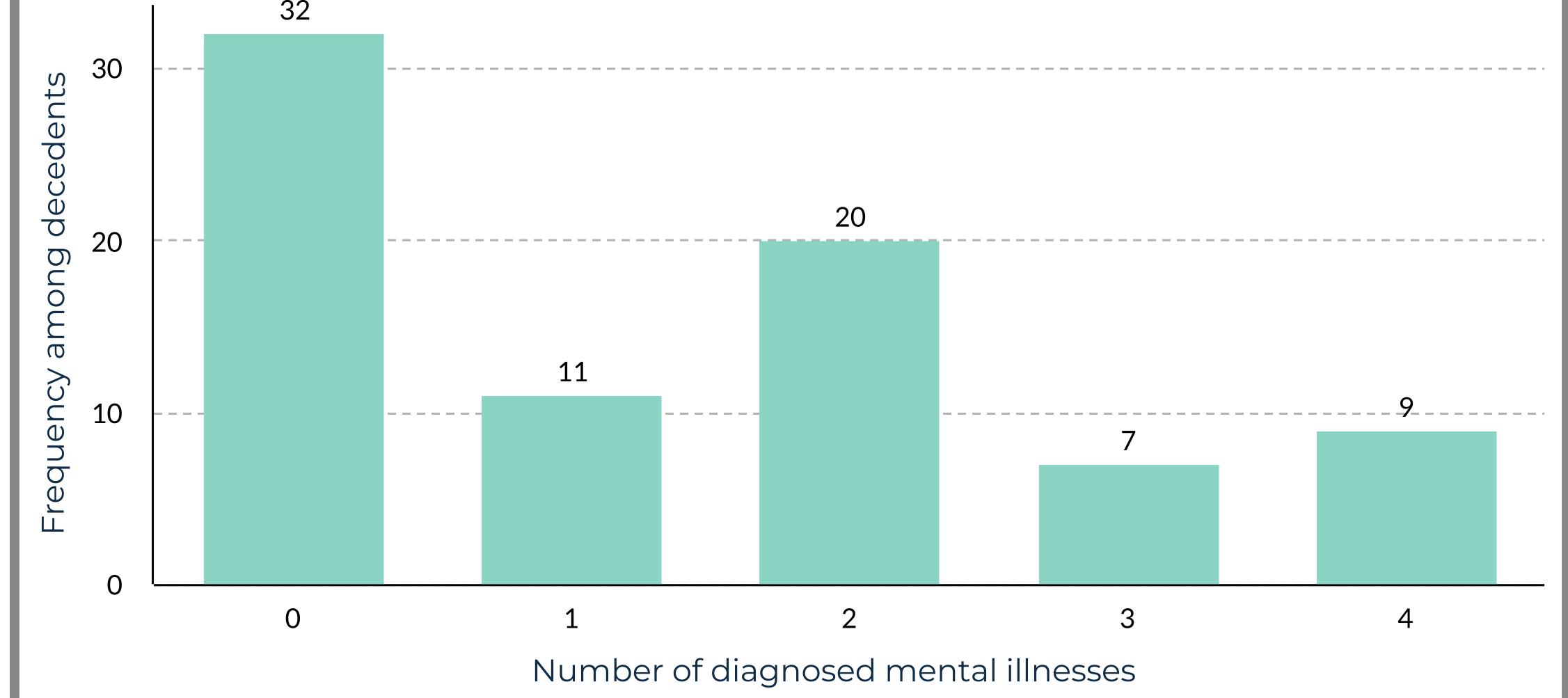


*Decedents may be represented in more than one category. Only mental illnesses diagnosed by a médical professional are included.

PERCENTAGE OF DECEDENTS...



NUMBER OF DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS

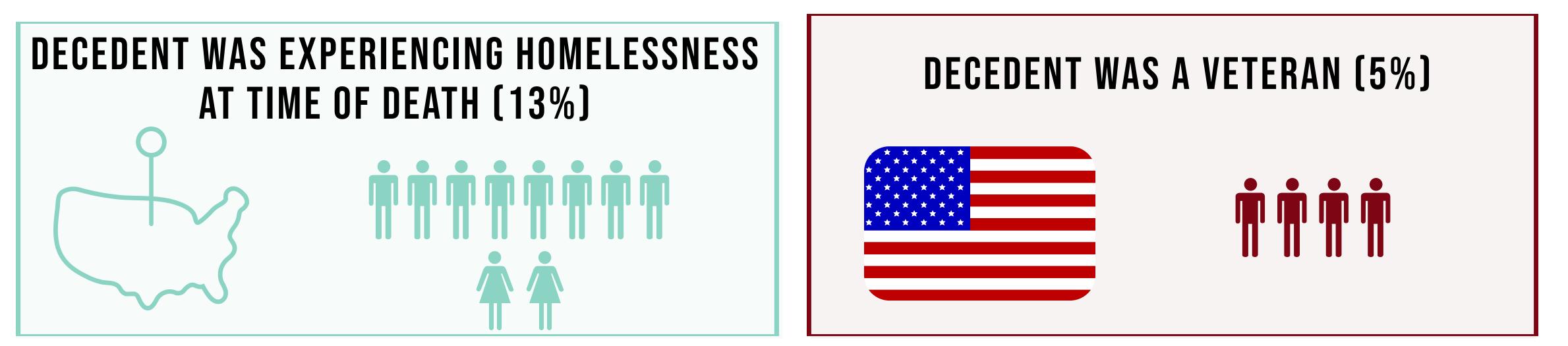


Office of the Medical Examiner

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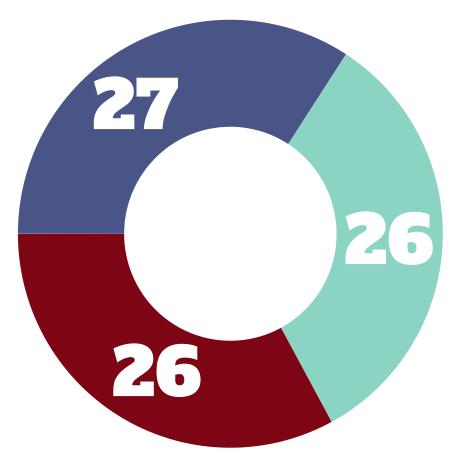




DECEDENTS EVER INCARCERATED WERE Released in Past 2 Months (10%)

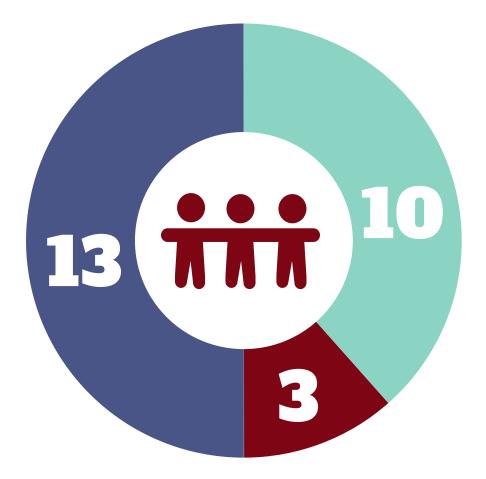


DECEDENT'S CHILD STATUS



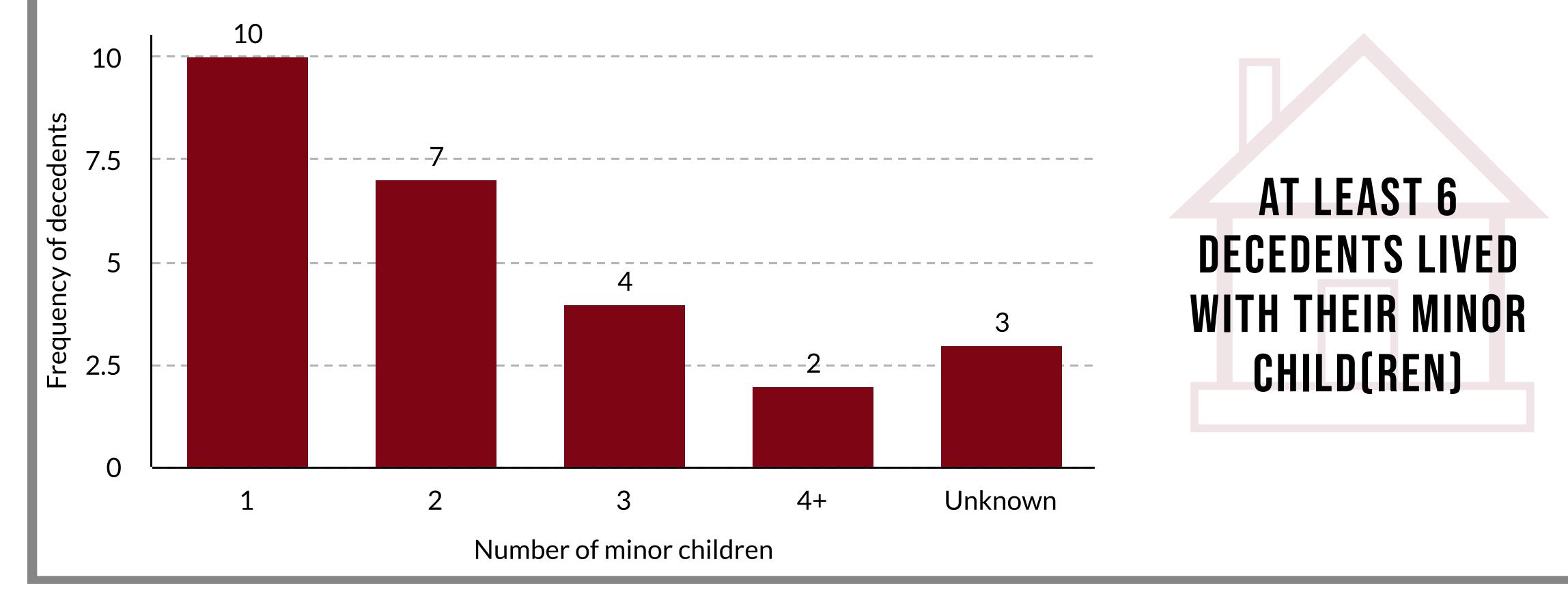
Only adult children (34%)
Minor child(ren) (33%)
No children (33%)

EMPLOYMENT STATUS OF THOSE WITH MINOR CHILDREN



Unemployed (50%)
Employed (38%)
Unknown (12%)

NUMBER OF MINOR CHILDREN

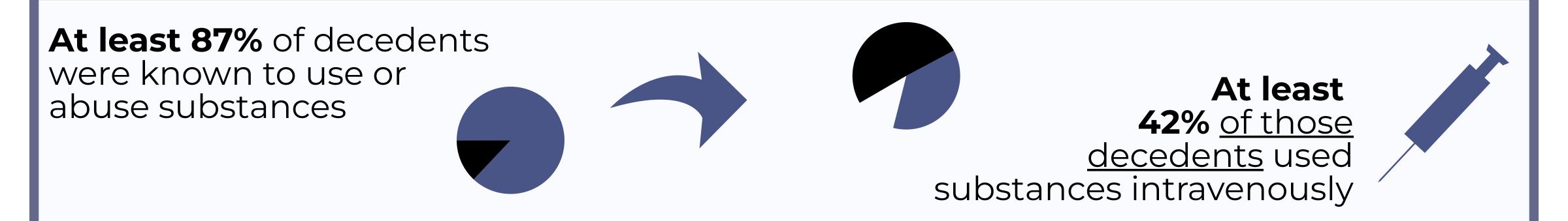


Office of the Medical Examiner

Deaths Related to Opioids and Other Drugs

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Reported Substance Use History



At least 37% of decedents were prescribed an opioid in the past 2 years



At least 18% of decedent's substance use started from a prescribed opioid



At least 33% of decedents have had at least one overdose before their fatal overdose

At least 46% of those decedents have had 2 or more overdoses before their fatal overdose

DECEDENT'S TYPICAL SUBSTANCE OF CHOICE[†]

60% OPIOIDS

34% METHAMPHETAMINE

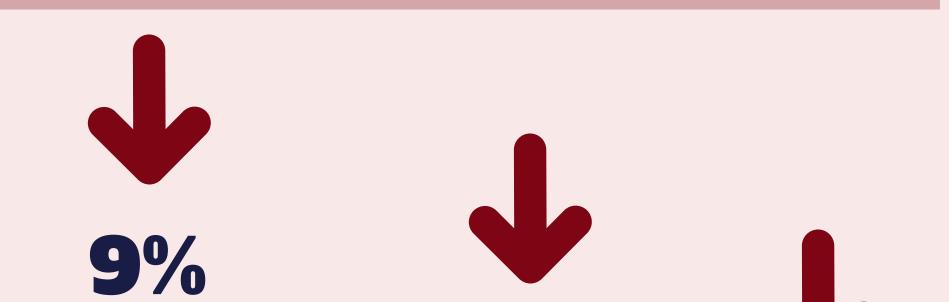
32% COCAINE/CRACK COCAINE

SUBSTANCES FOUND IN TOXICOLOGY RESULTS CONTRIBUTING TO DEATH[†]

DECEDENT WAS SUBSTANCE FREE IN THE PAST MONTH

33%

SUSPECTED REASONS FOR RELAPSE*



77% OPIOIDS

41% METHAMPHETAMINE

15% COCAINE

†Decedent may have had more than one substance of choice and more than one substance in their toxicology result **LEFT JAIL/REHAB**





8%

*These factors were mentioned by those close to decedent (with substance use history n=69) for why they may have begun to use substances again after a period of being substance free ranging from a few months to years. **Life stress includes relationship termination, social pressure, homelessness, increased pain, and insecure housing.

Decedent has been to a substance use treatment clinic at least one time

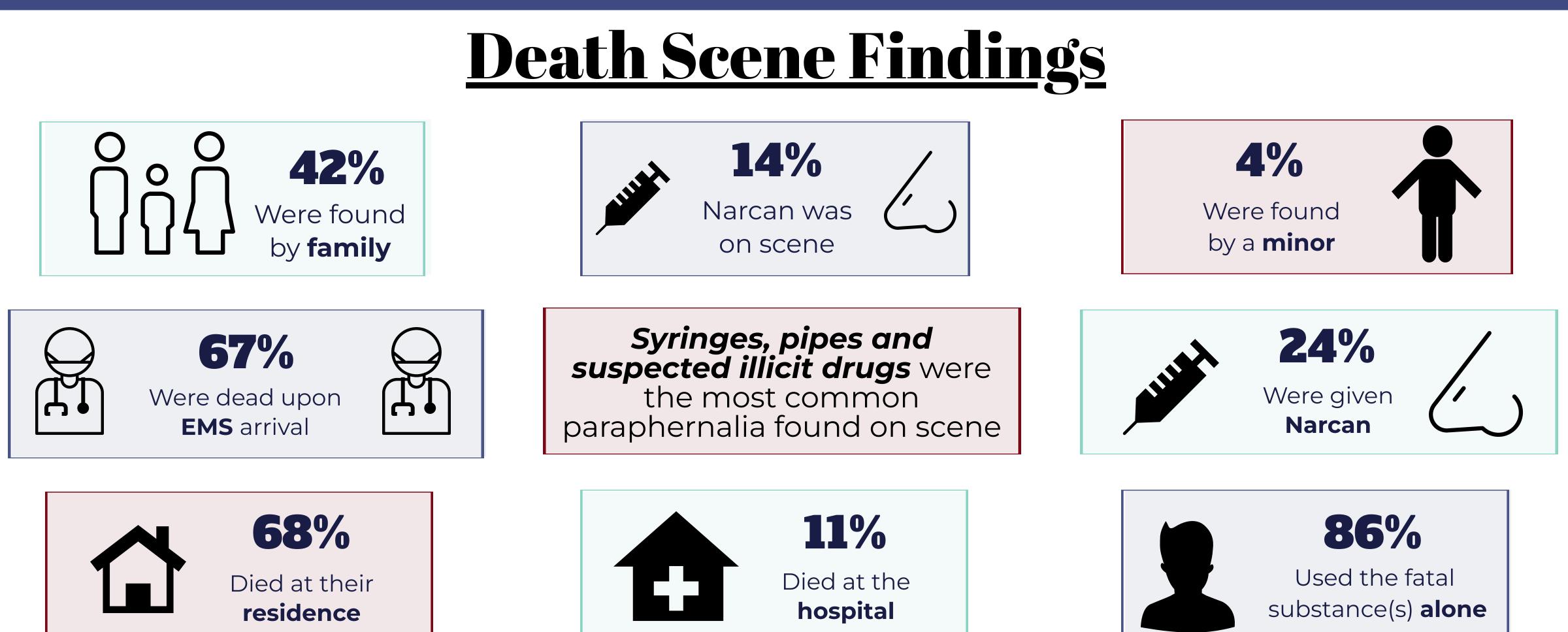


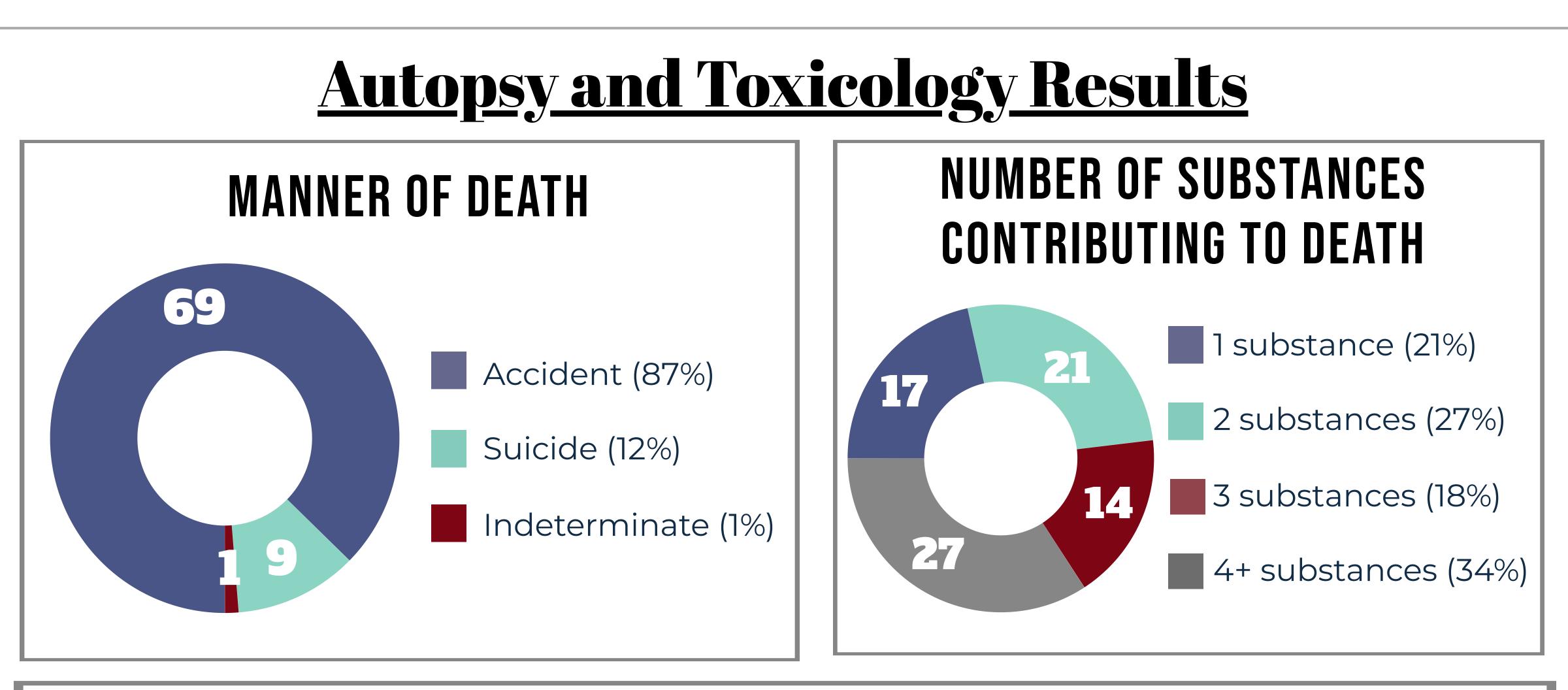
Decedent was receiving methadone, buprenorphine, naltrexone, or suboxone

Office of the Medical Examiner

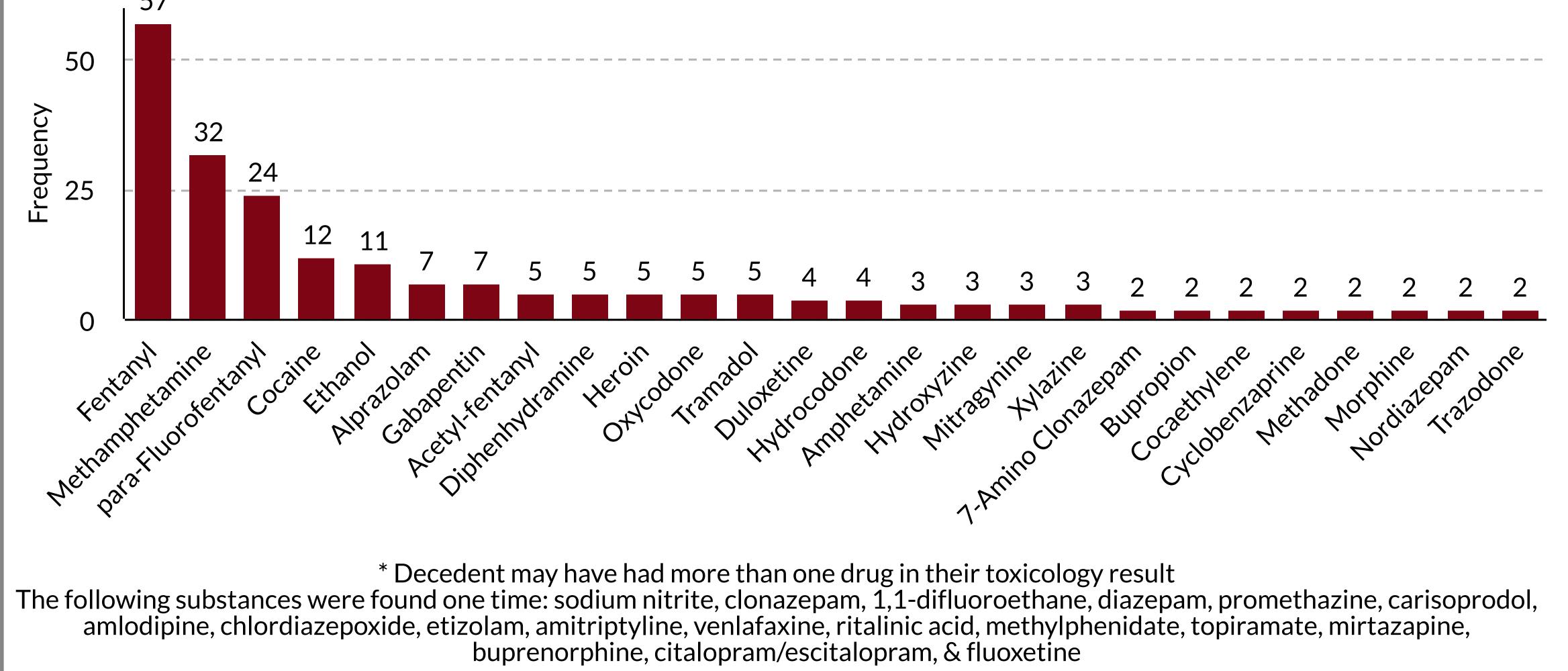
Deaths Related to Opioids and Other Drugs

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SUBSTANCES PRESENT IN TOXICOLOGY*



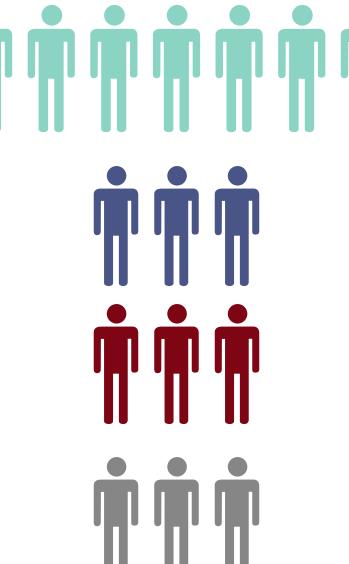
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Deaths Related to Opioids and Other Drugs

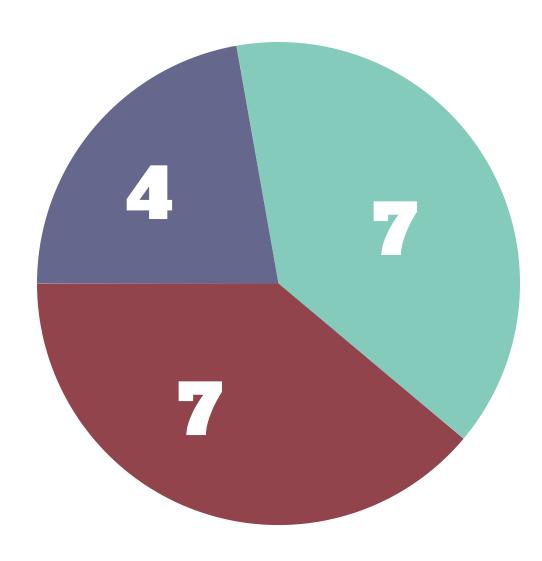
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Highlights

ADDITIONAL NALOXONE INFORMATION (N=19)*



- 2 mg of Naloxone
- 4 mg of Naloxone
- 6 mg of Naloxone
- 8 mg of Naloxone



IV Naloxone



10 mg of Naloxone



IV & Nasal Naloxone

*Unknown dosage and method of administration of Naloxone given to **one** decedent

POSITIONAL ASPHYXIA:

32% (20 of 63) of decedents with an opioid-related death were originally found in a potentially airway compromising position

These positions include finding decedent face down on the floor, bed, couch etc. 19% (3 of 16) of decedents who died of non-opioid substance(s) were originally found in a potentially airway compromising position

NOVEL DRUG: PARA-FLUOROFENTANYL

- Analogue of fentanyl that's reportedly stronger than fentanyl
- Para-fluorofentanyl contributed to 0 deaths in 2018/2019
- Para-fluorofentanyl contributed to 4 deaths in 2020



SUBSTANCE COMBINATIONS

Benzodiazepines & Opioids

12 decedents had a <u>benzodiazepine</u> and an <u>opioid</u> in their toxicology report

2 decedents were prescribed that <u>benzodiazepine</u> and <u>opioid</u>

Heroin & Fentanyl

<u>Heroin</u> contributed to **4** deaths, **all** of these deaths also had <u>fentanyl</u> present

Xylazine & Fentanyl

<u>Xylazine</u> contributed to **3** deaths, **all** of these deaths also had <u>fentanyl</u> present

Methamphetamine & Opioids

23 decedents had <u>methamphetamine</u> and any <u>opioid(s)</u> in their toxicology report

22 decedents had <u>methamphetamine</u> and <u>fentanyl</u> in their toxicology report