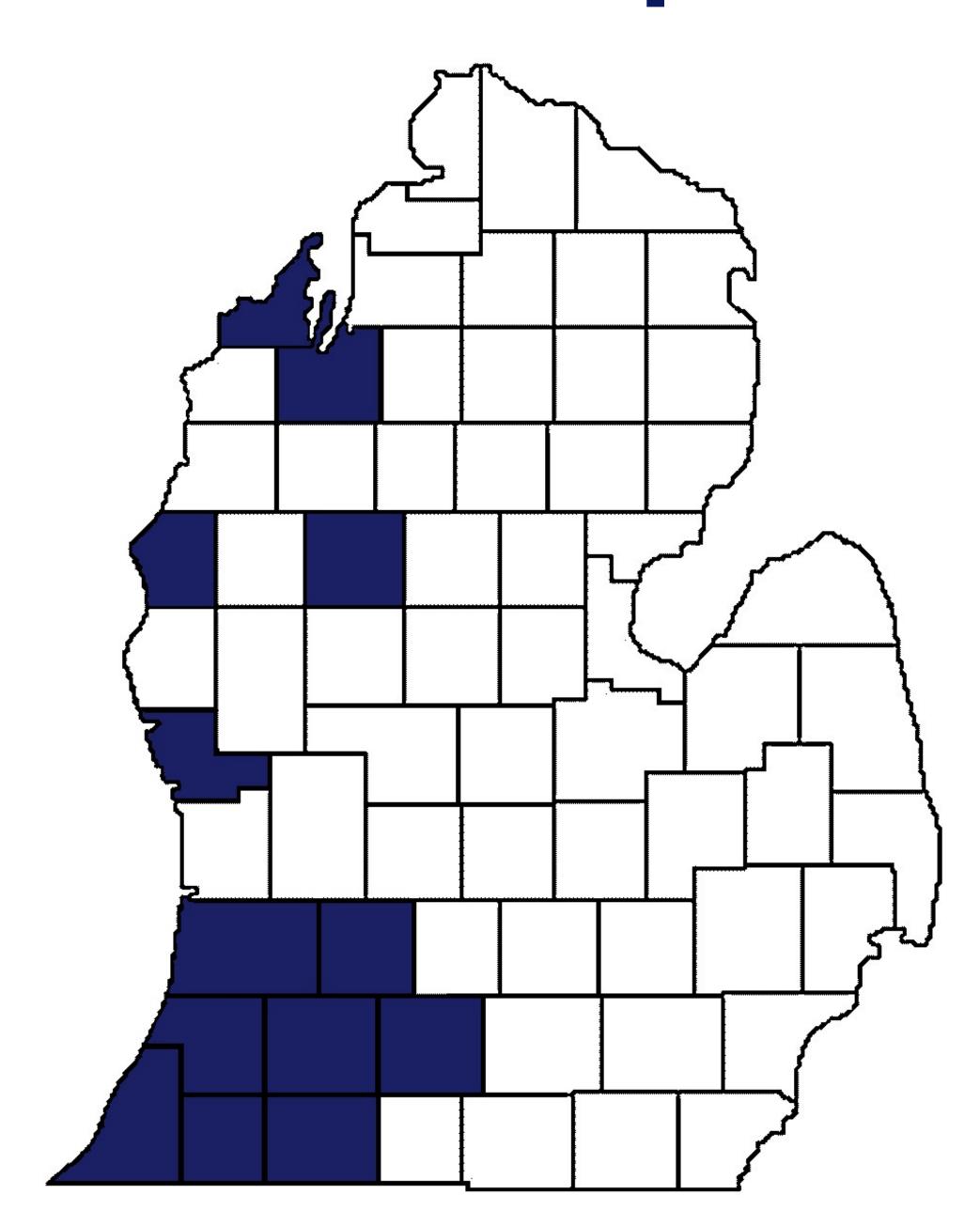
Medical Examiner Office

Counties covered in this report:

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



Purpose:

This data was collected from 13 counties served by the Office of the Medical Examiner in the Department of Pathology at 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 chloe.bielby@med.wmich.edu

April to June, 2021 Report

Deaths Related to Opioids and Other Drugs

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

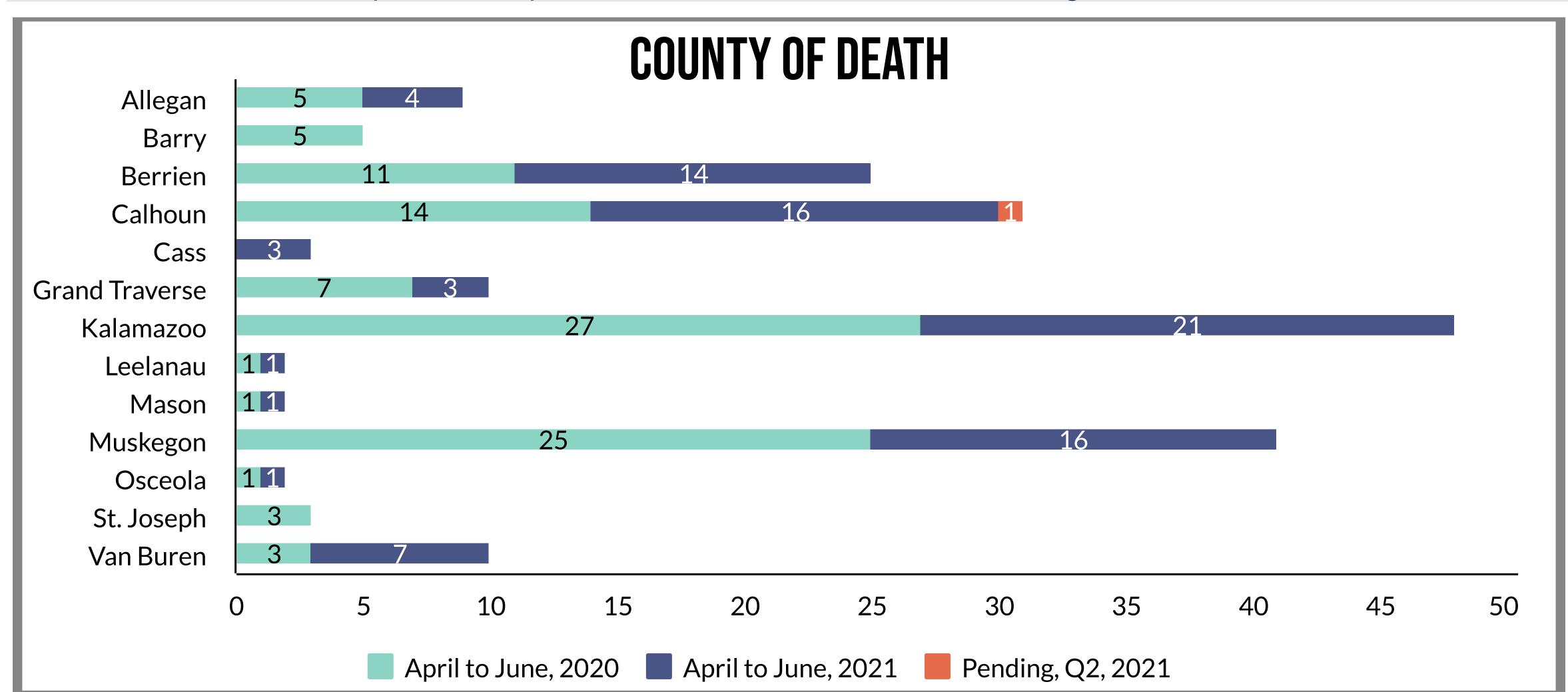
Total Drug-Related Deaths

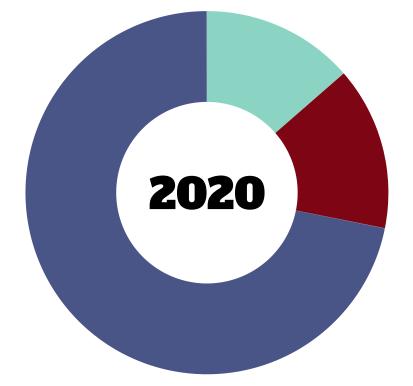
April to June, 2020

103 deaths

April to June, 2021 87 deaths* Percent change

*There is 1 pending suspected drug-related death at the time of report being published. This report will only include information from confirmed drug-related deaths.







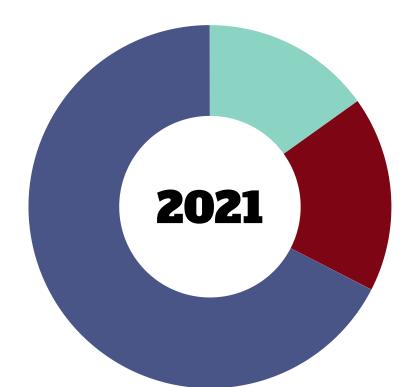
74 opioid and non-opioid



14 opioid only



15 non-opioid only



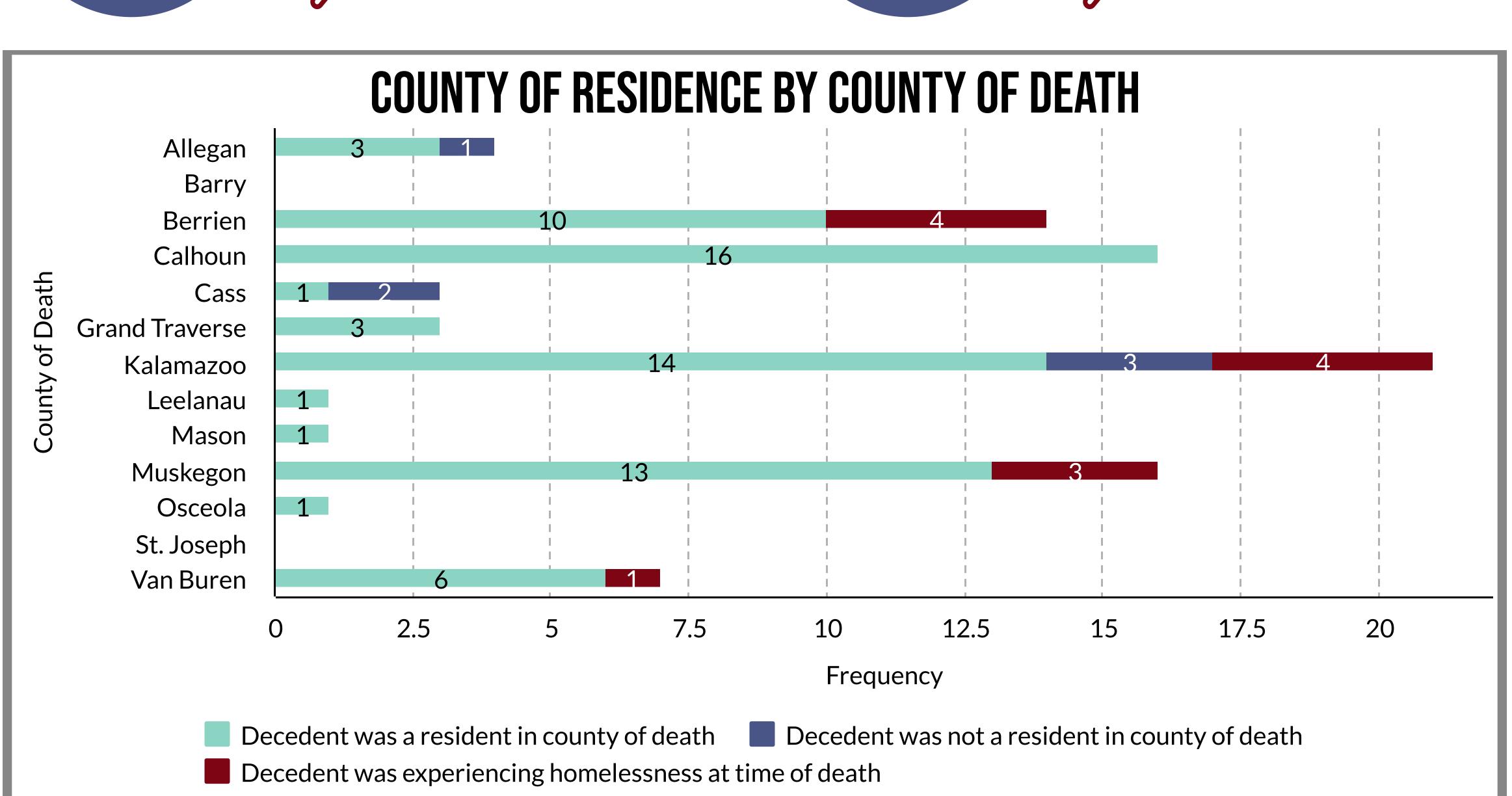
59 opioid and non-opioid



13 opioid only

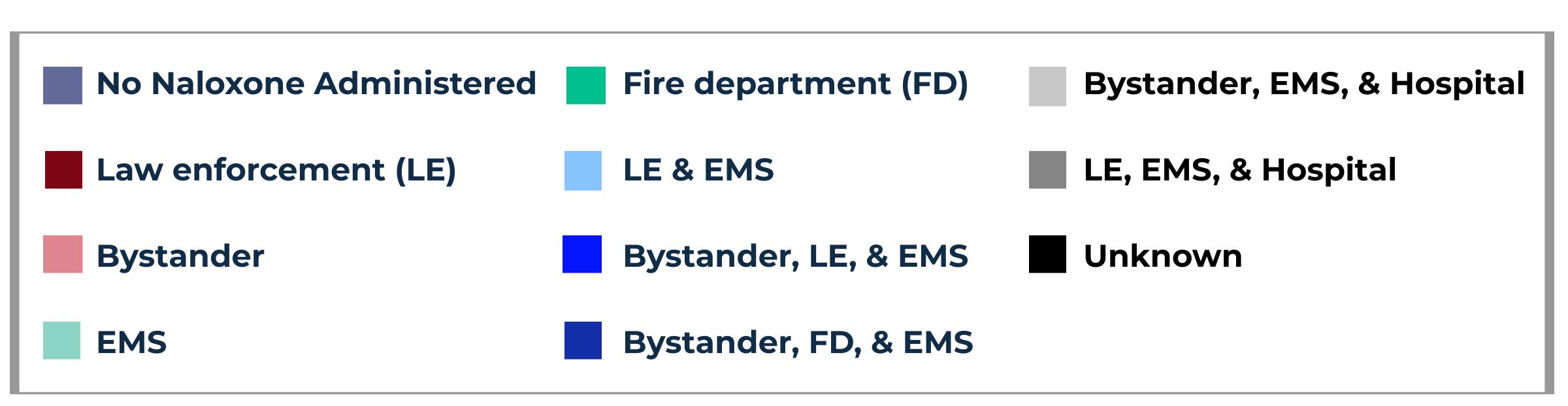


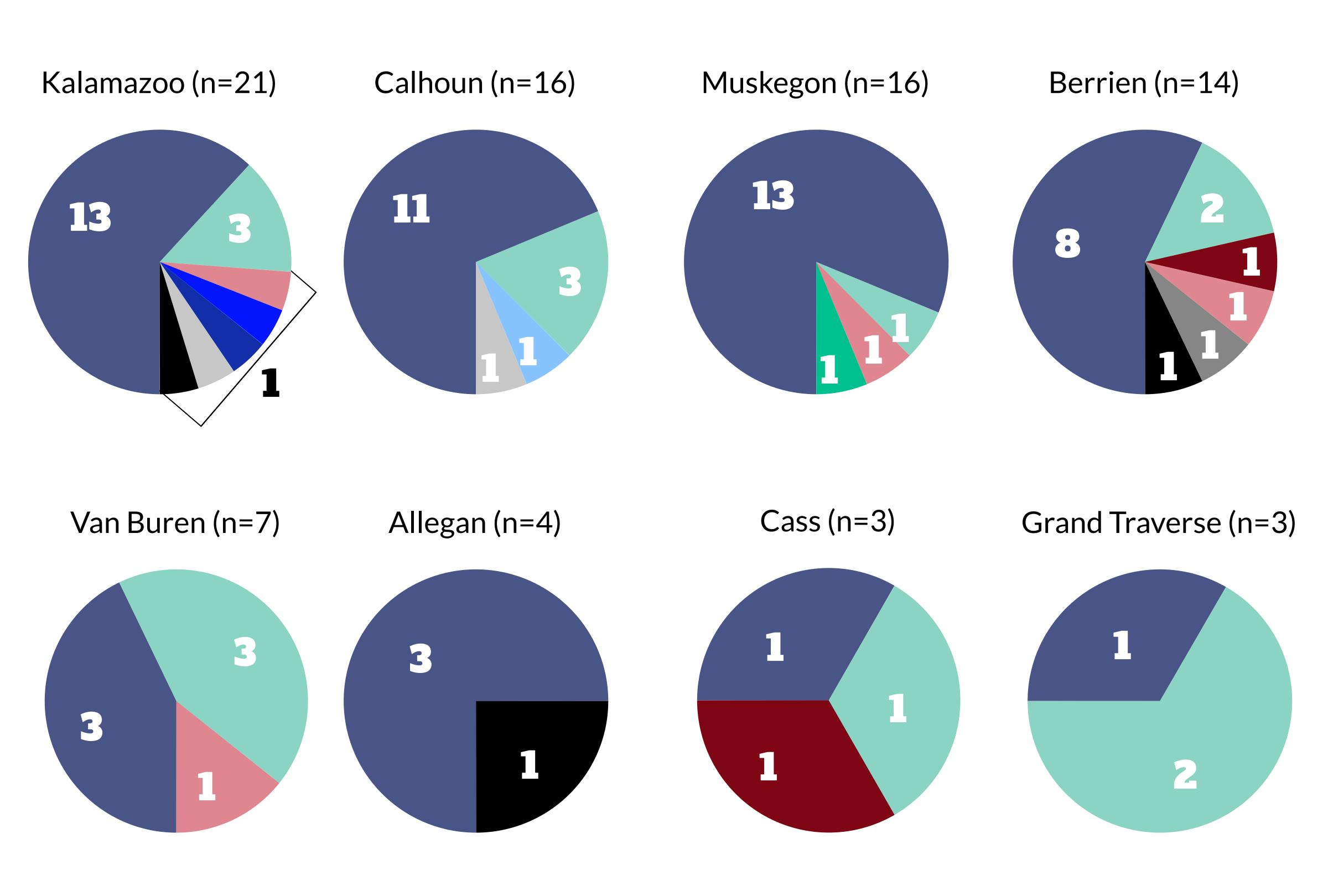
15 non-opioid only

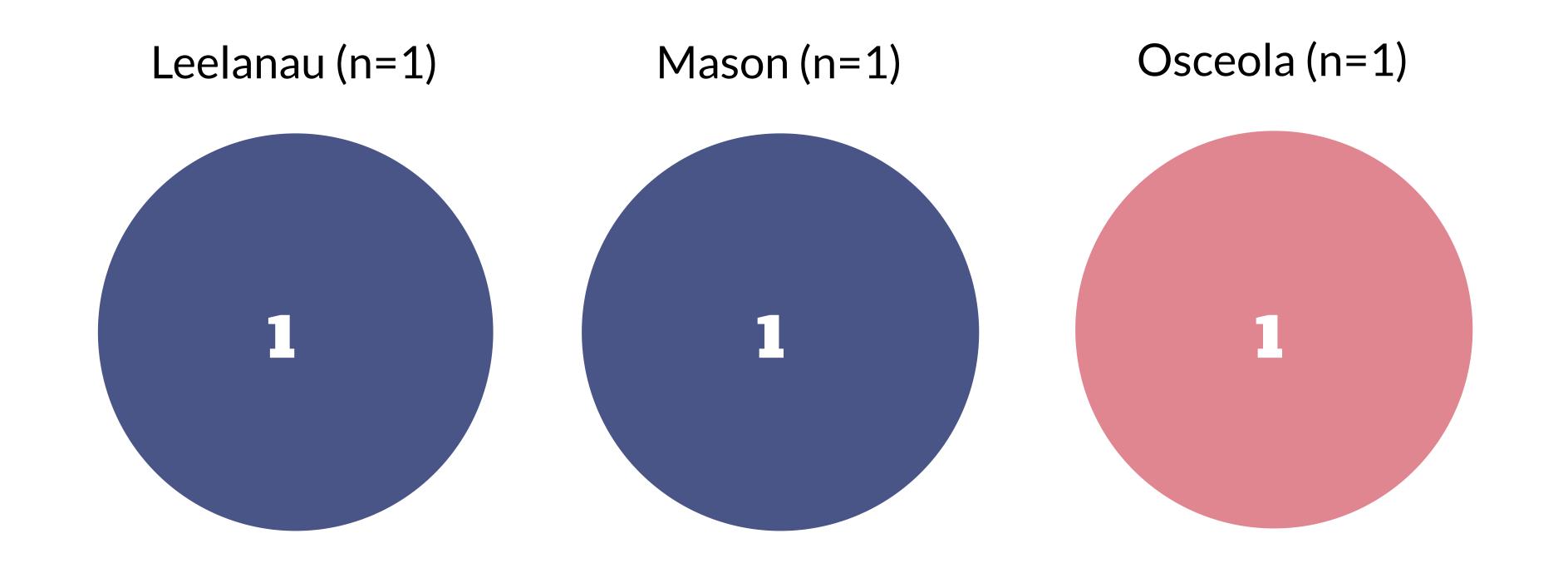


- Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Naloxone Administration





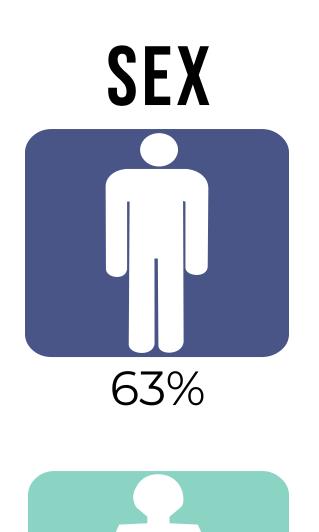


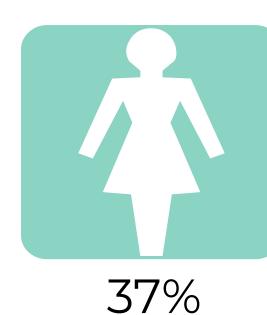
April to June, 2021 Report

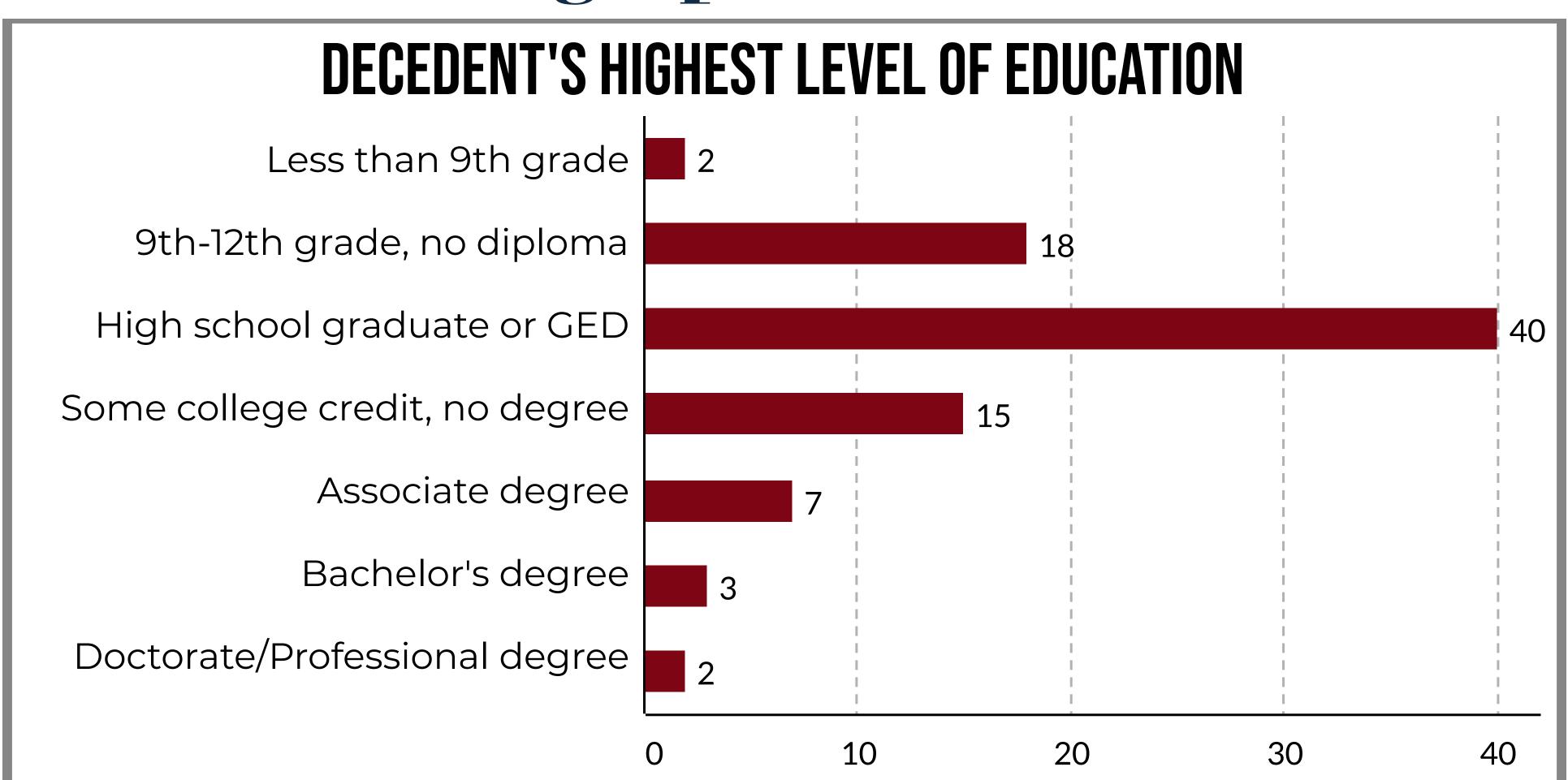
Deaths Related to Opioids and Other Drugs

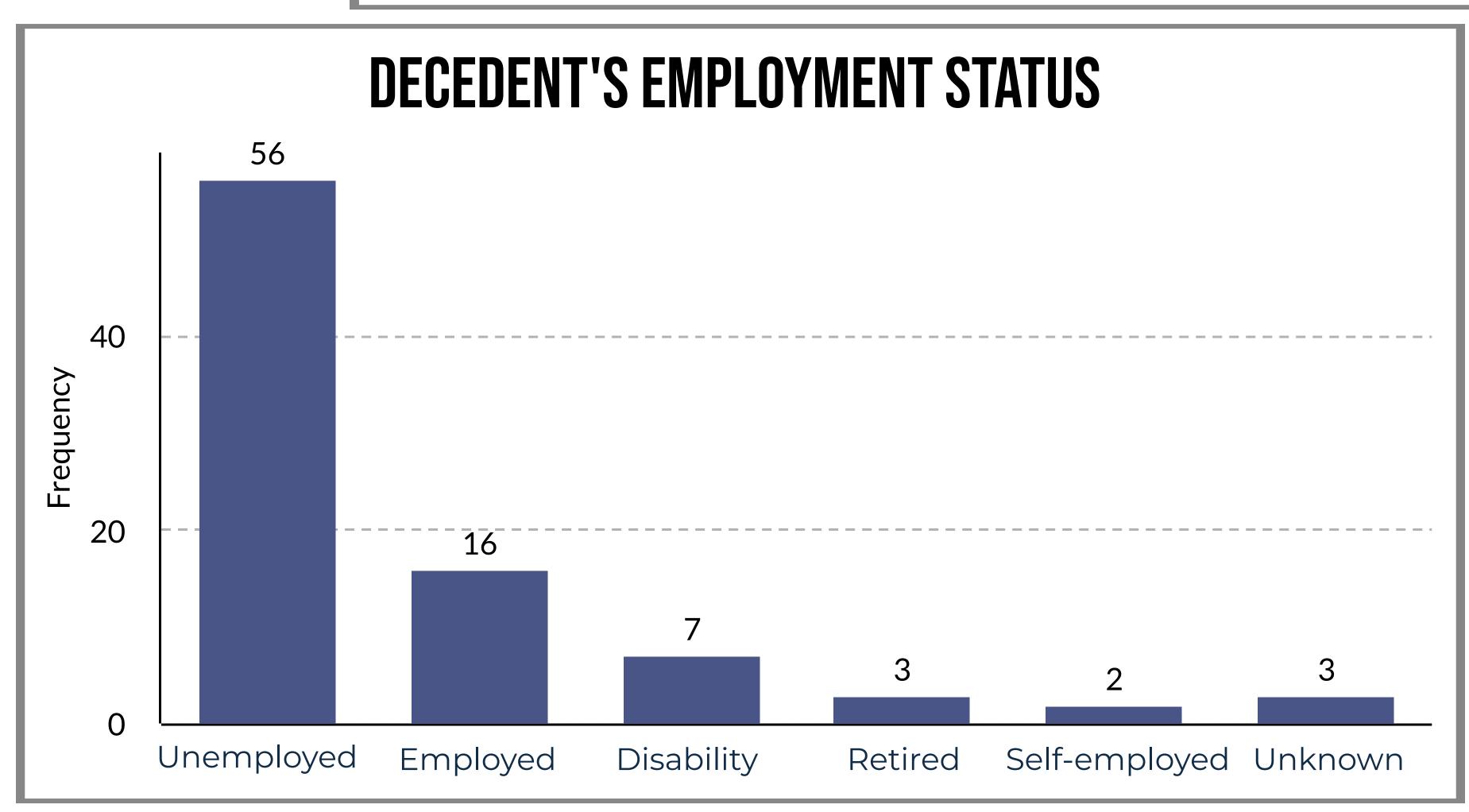
Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

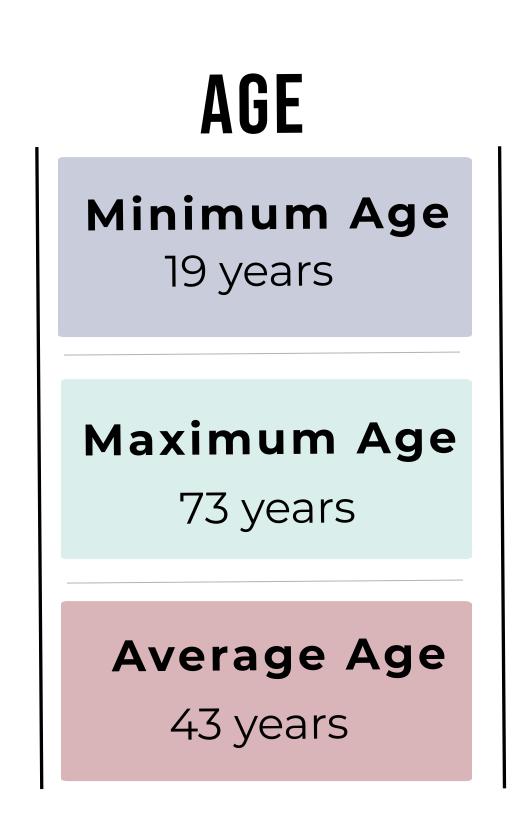
Demographics

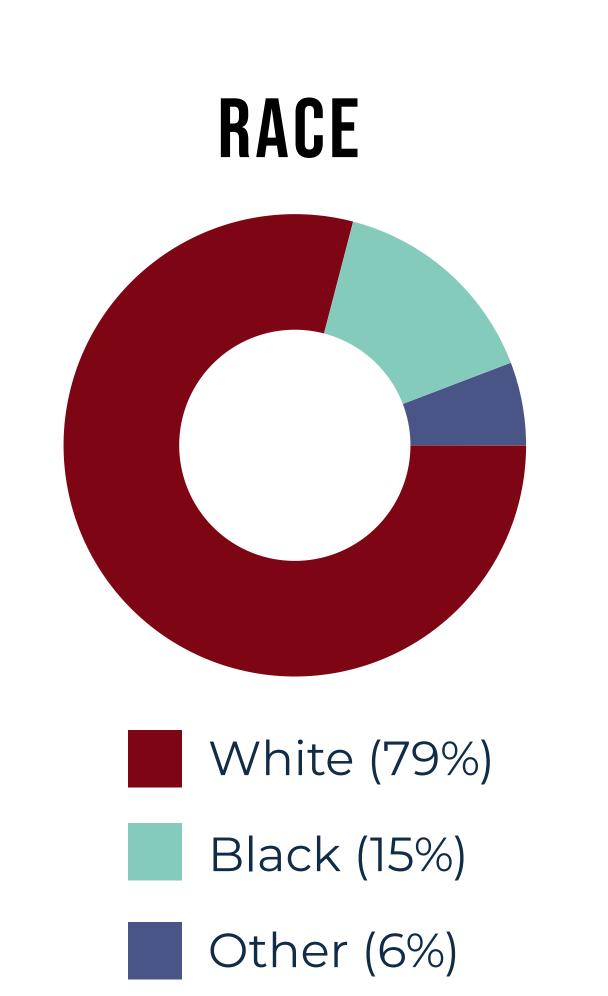


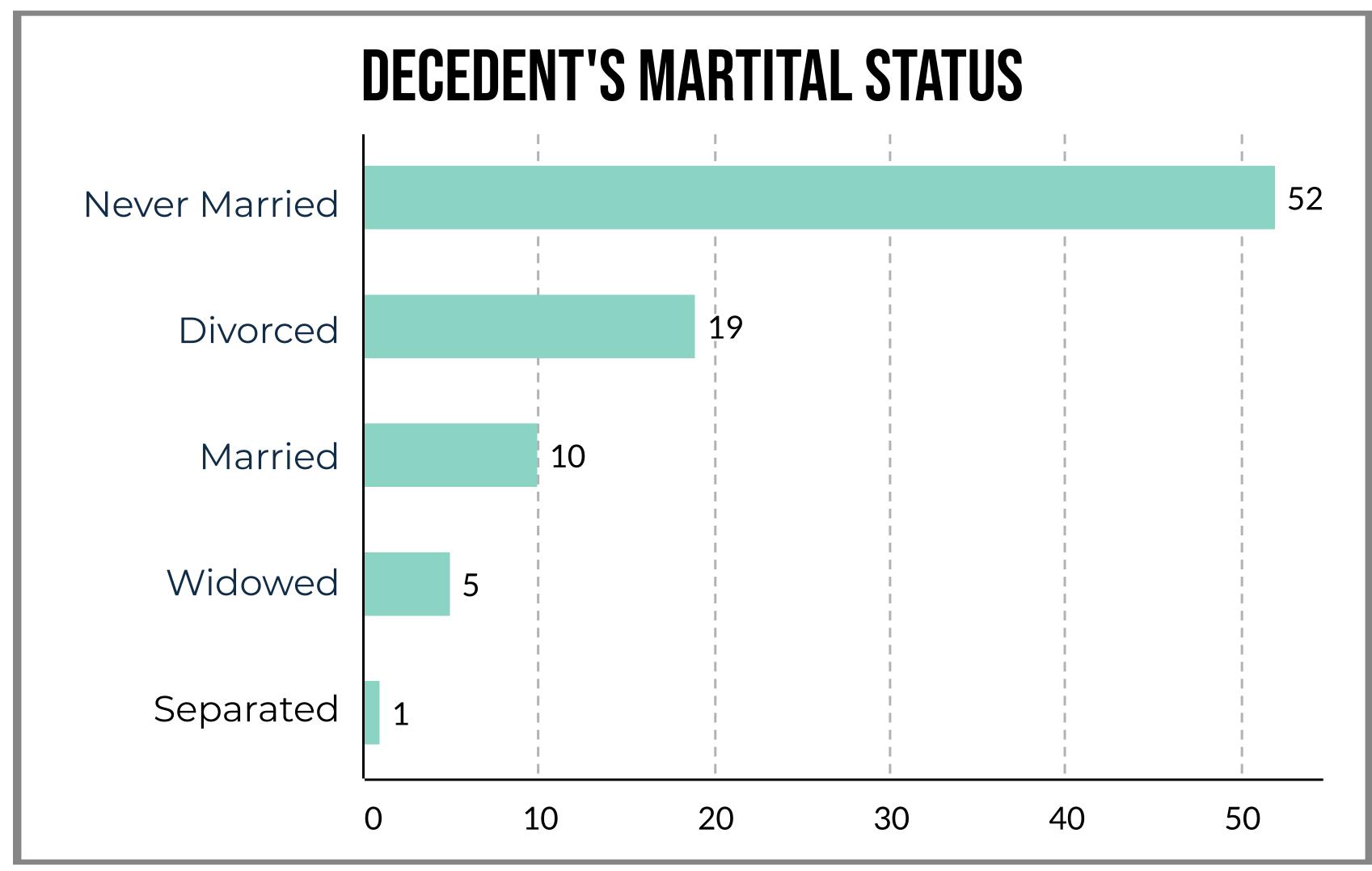










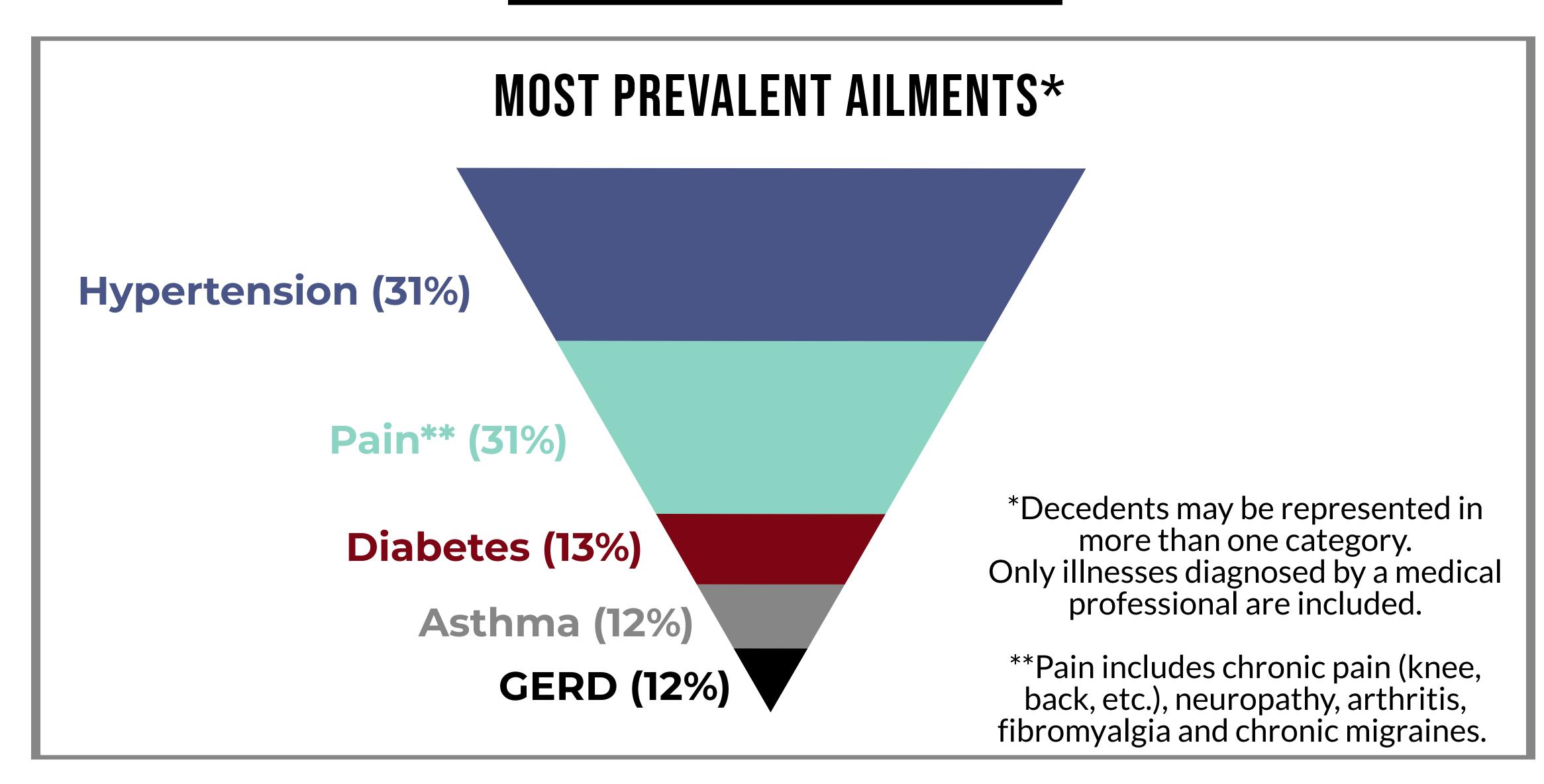


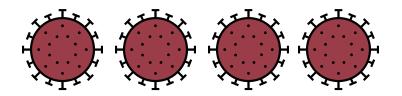
April to June, 2021 Report Office of the Medical Examiner

Deaths Related to Opioids and Other Drugs

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

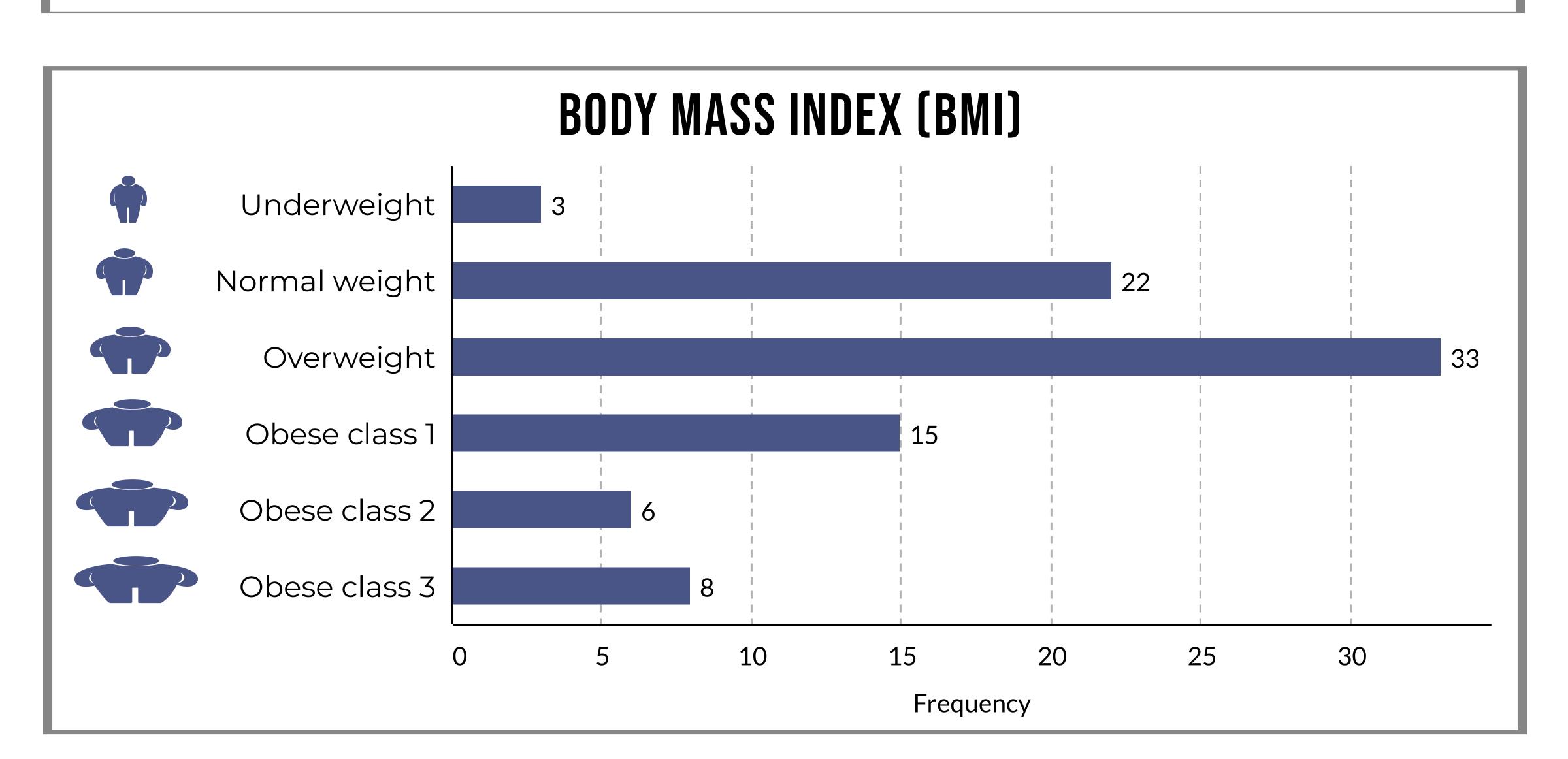
Health Factors





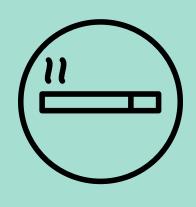
At least 13 decedents were Hepatitis C positive

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



Decedent used tobacco*

80%+



Decedent drank alcohol*

58%+



Decedent had a PCP

50%

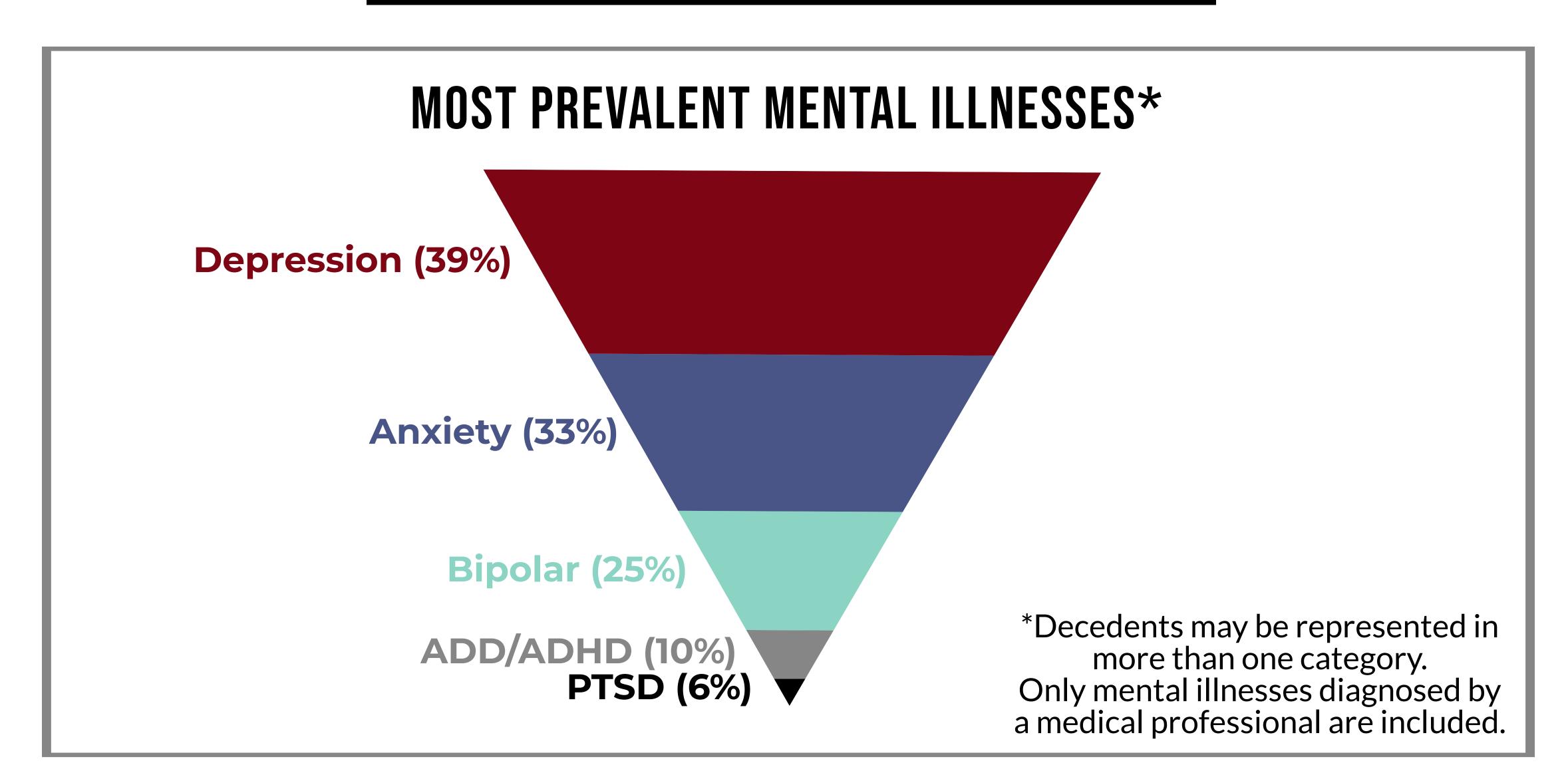


April to June, 2021 Report _____ Office of the Medical Examiner

Deaths Related to Opioids and Other Drugs

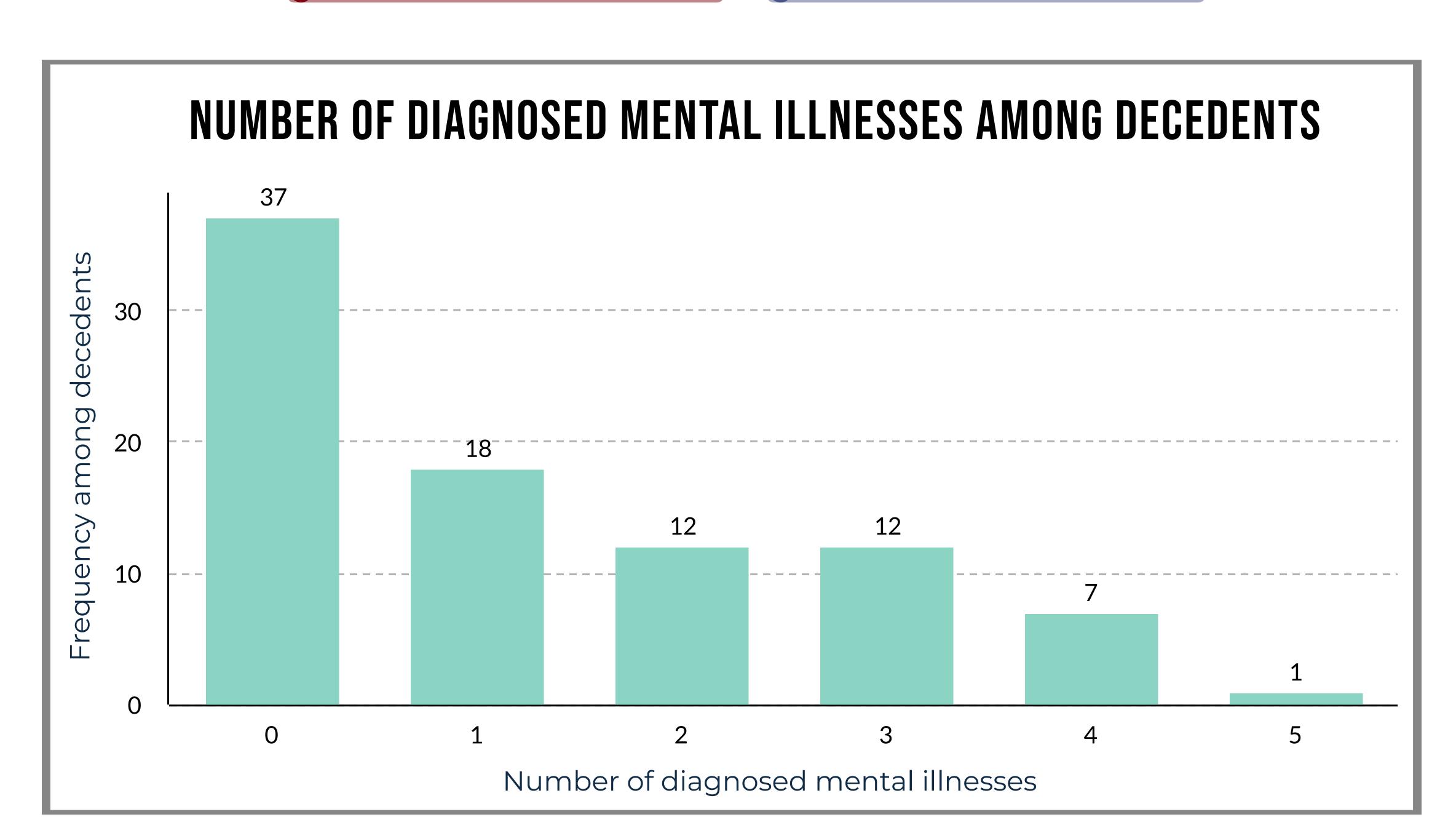
Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Mental Health Factors



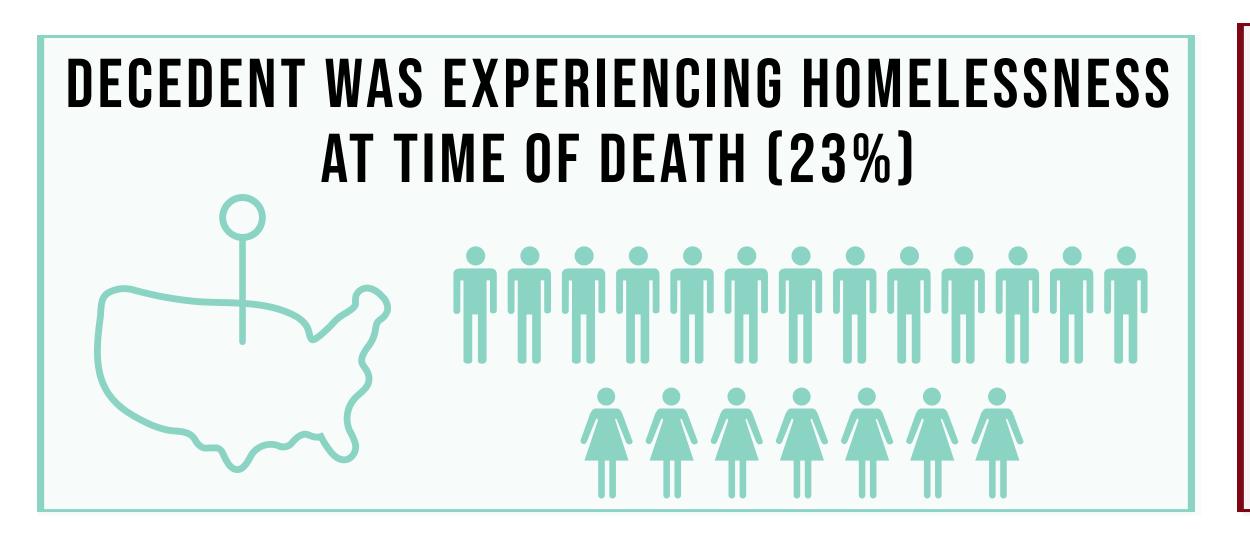
PERCENTAGE OF DECEDENTS...

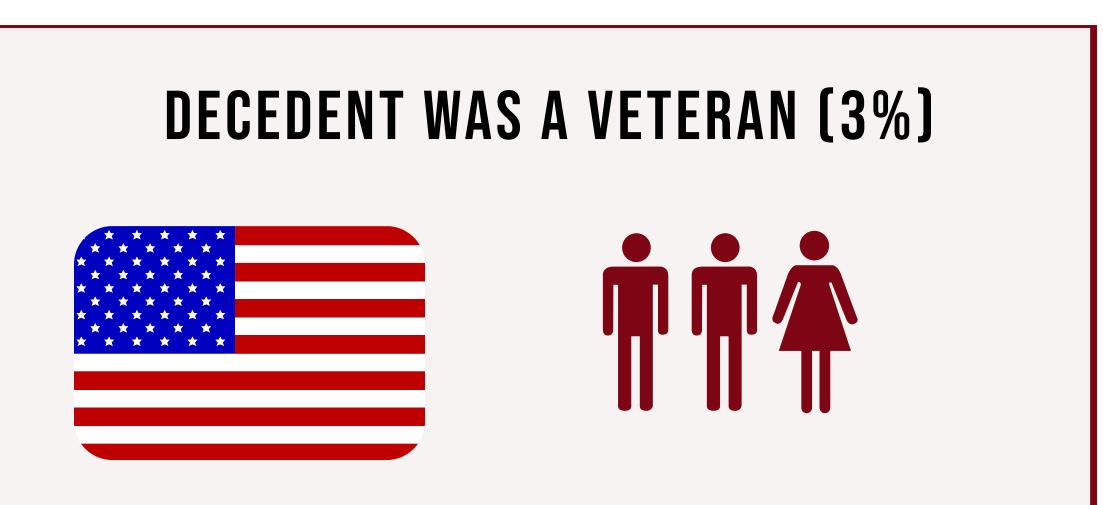


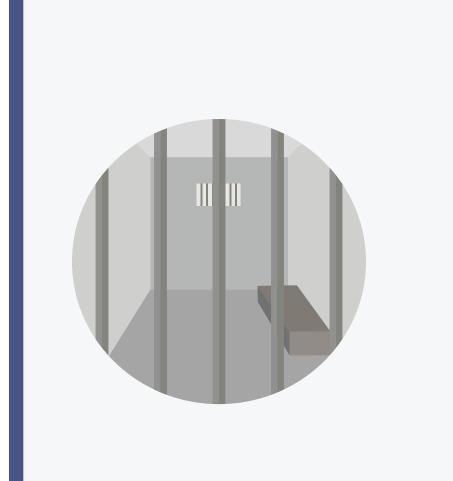


Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Social Factors



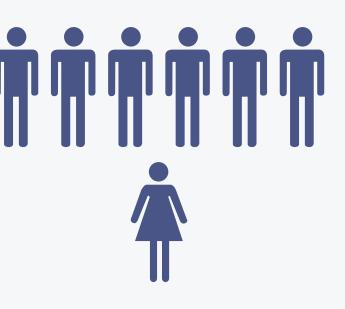


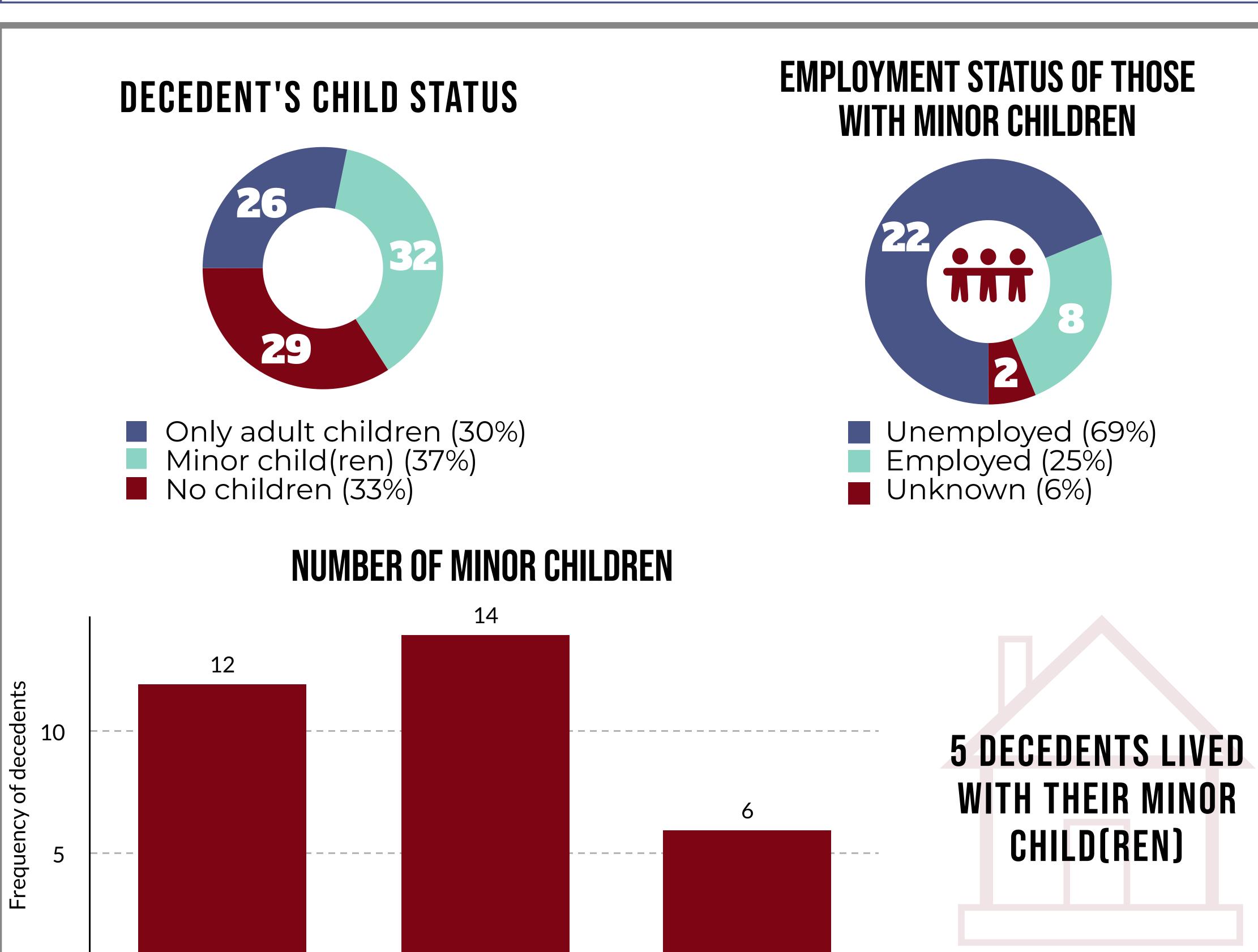




DECEDENTS EVER INCARCERATED WERE RELEASED IN PAST 2 MONTHS (24%)







Number of minor children

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

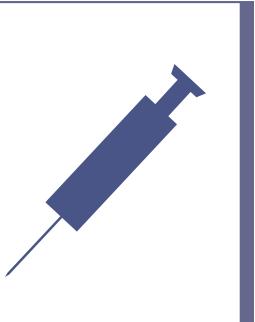
Reported Substance Use History

At least 99% of decedents were known to use or abuse substances





At least **33%** of those decedents used substances intravenously



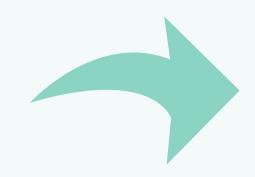
At least 24% of decedents were prescribed an opioid in the past 2 years



At least 15% of decedent's substance use started from a prescribed opioid



At least 25% of decedents have had at least one overdose before their fatal overdose



At least **41%** of those decedents have had 2 or more overdoses before their fatal overdose

DECEDENT'S TYPICAL SUBSTANCE OF CHOICE[†]

26% **COCAINE**

55% HEROIN/OPIOIDS 19%

METHAMPHETAMINE

DRUGS FOUND IN TOXICOLOGY RESULTS †

72% **FENTANYL**

51%

METHAMPHETAMINE

15% **HEROIN**

12% **COCAINE**

† Decedent may have had more than one drug of choice and more than one drug in their toxicology result

DECEDENT WAS SUBSTANCE FREE IN THE PAST MONTH

24%

SUSPECTED REASONS FOR RELAPSE*



LEFT JAIL/REHAB



14% LIFE STRESS**



UNKNOWN

*These factors were mentioned by those close to decedent (with substance use history n=84) 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 the death of a loved one, relationship termination, and insecure housing.

Decedent has been to a substance rehabilitation clinic at least one time

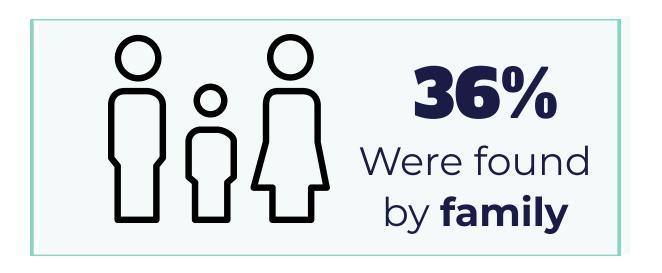
22%

Decedent was receiving methadone, buprenorphine, naltrexone, or suboxone

10%

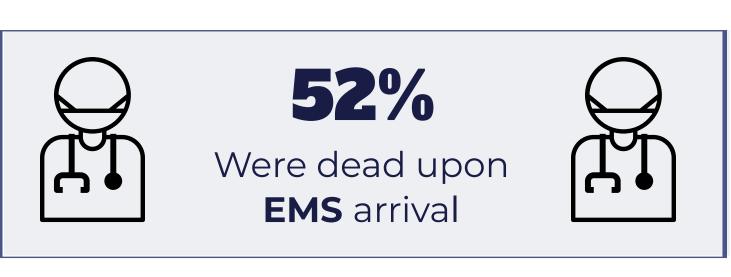
[,] Allegan, Barry, Berrien, Calhoun, Cass, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Death Scene Findings



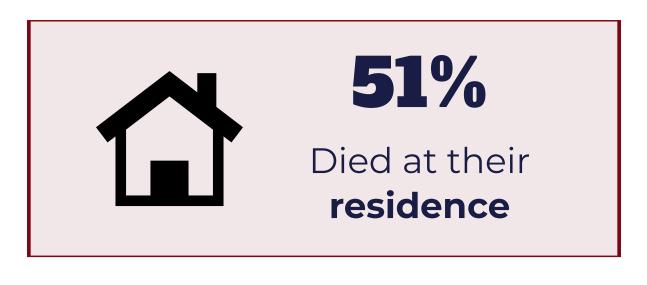








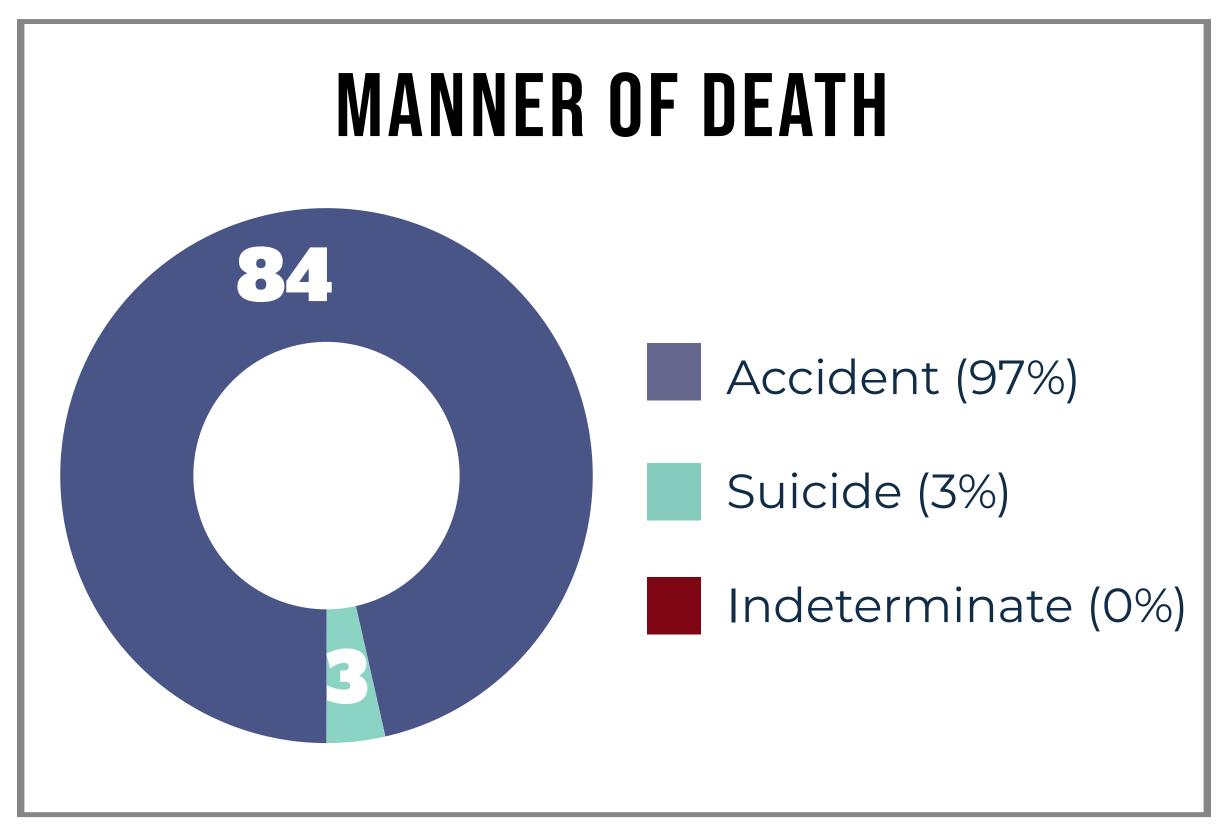


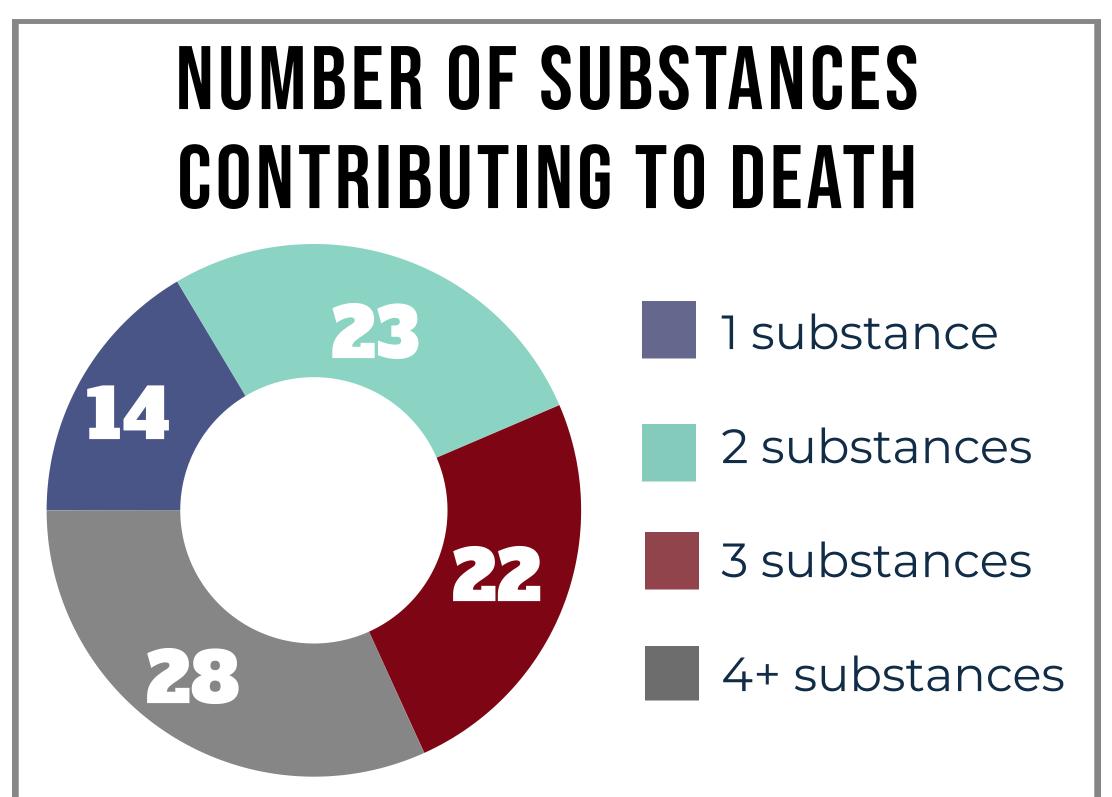


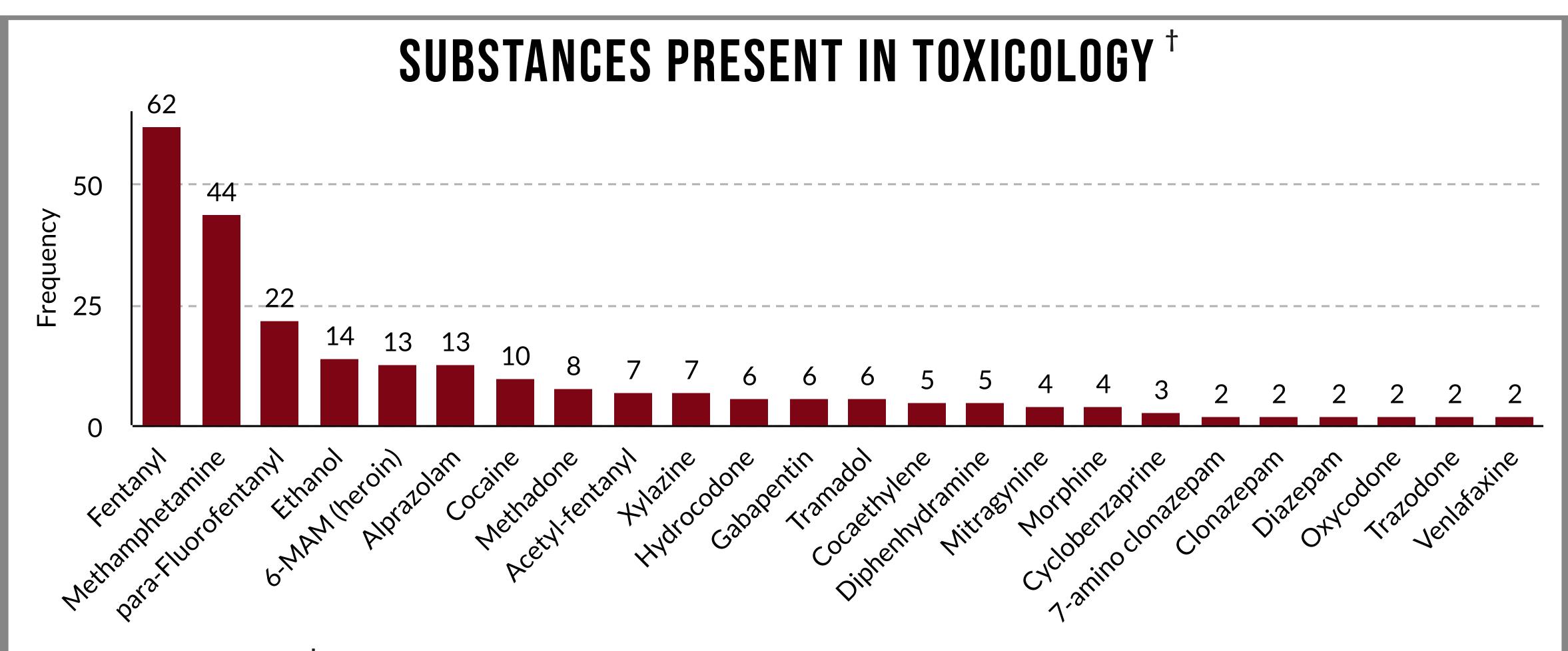




Autopsy and Toxicology Results







[†] Decedent may have had more than one drug in their toxicology result

The following substances were found one time: amlodipine, amphetamine, benzoylecgonine, butalbital,

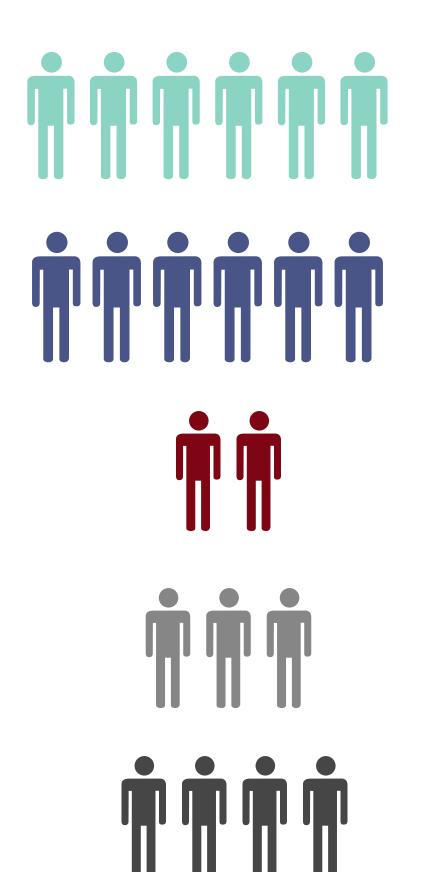
chlordiazepoxide, dicyclomine, duloxetine, hydroxyzine, lorazepam, methylphenidate,

metoprolol, nordiazepam, olanzapine, paroxetine, and sertraline.

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

Highlights

ADDITIONAL NALOXONE INFORMATION (N=32)



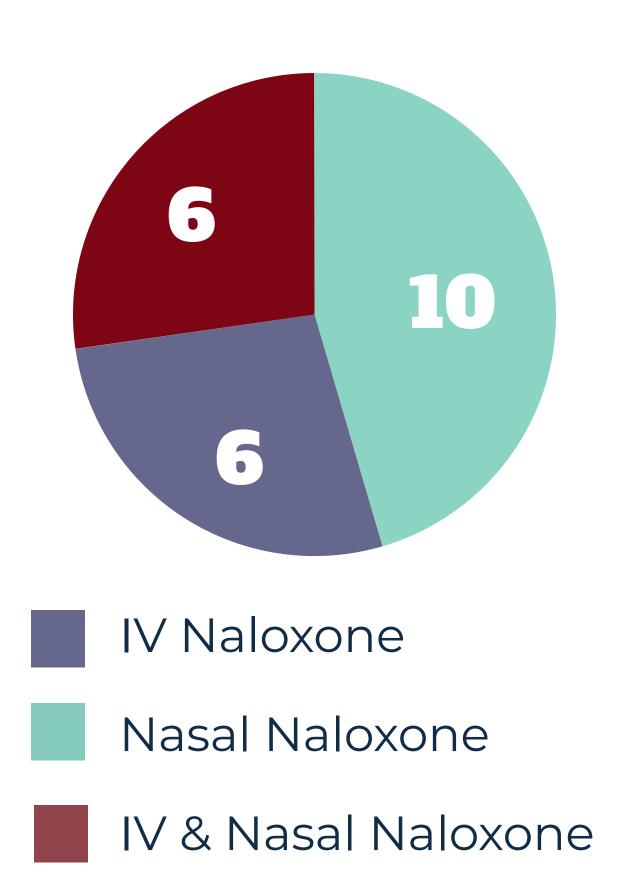
2 mg of Naloxone

4 mg of Naloxone

6 mg of Naloxone

8 mg of Naloxone

10 mg+ of Naloxone



Unknown dosage of Naloxone given to <u>eleven</u> decedents; Unknown method of Naloxone administration for <u>ten</u> decedents.

POSITIONAL ASPHYXIA:

28% (20 of 72) 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.

7% (1 of 15) of decedents who died of non-opioid substance(s) were originally found in a potentially airway compromising position

NOVEL DRUG: PARA-FLUOROFENTANYL (PFF)

- 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
- 22 instances of para-fluorofentanyl this quarter

SUBSTANCE COMBINATIONS

Benzodiazepines & Opioids

18 decedents had a benzodiazepine and an opioid in their toxicology report

3 decedents were prescribed that benzodiazepine and opioid

Heroin & Fentanyl

Heroin contributed to 12 deaths, 11 of these deaths also had <u>fentanyl</u> present

Xylazine & Fentanyl

Xylazine contributed to 7 deaths, all 7 of these deaths also had <u>fentanyl</u> present

Methamphetamine & Opioids

30 decedents had methamphetamine and fentanyl in their toxicology report

32 decedents had methamphetamine and any opioid(s) in their toxicology report