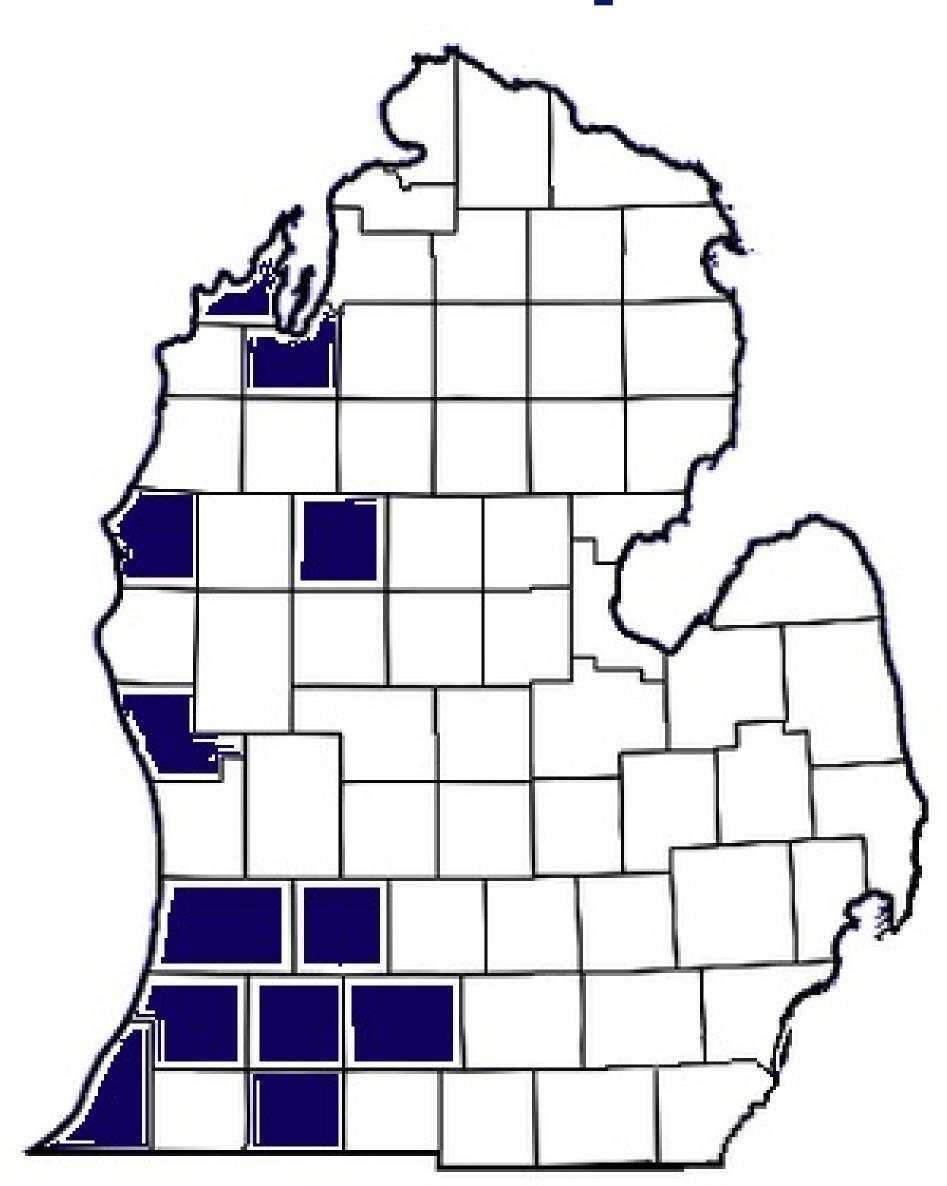
Medical Examiner Office

Counties covered in this report:

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



Purpose:

This data was collected from 12 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.

Sections with the following headings are approximations and frequencies may be higher than what is reported:

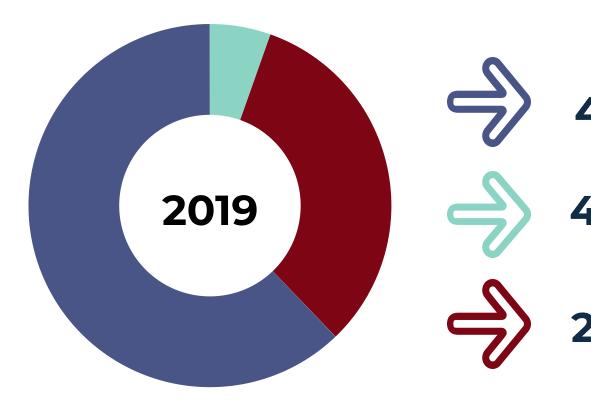
Health Factors, Mental Health Factors, Social Factors, and Decedent Substance Use History.

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

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

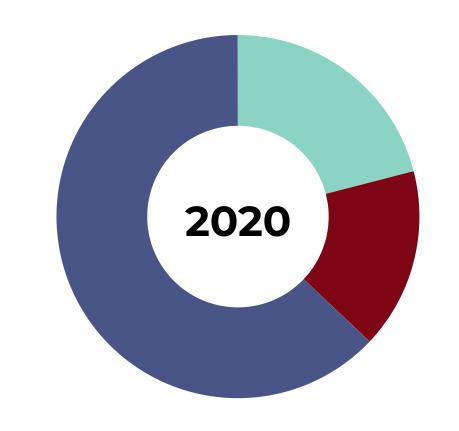
Total Drug-Related Deaths



46 opioid and non-opioid

4 opioid only

24 non-opioid only





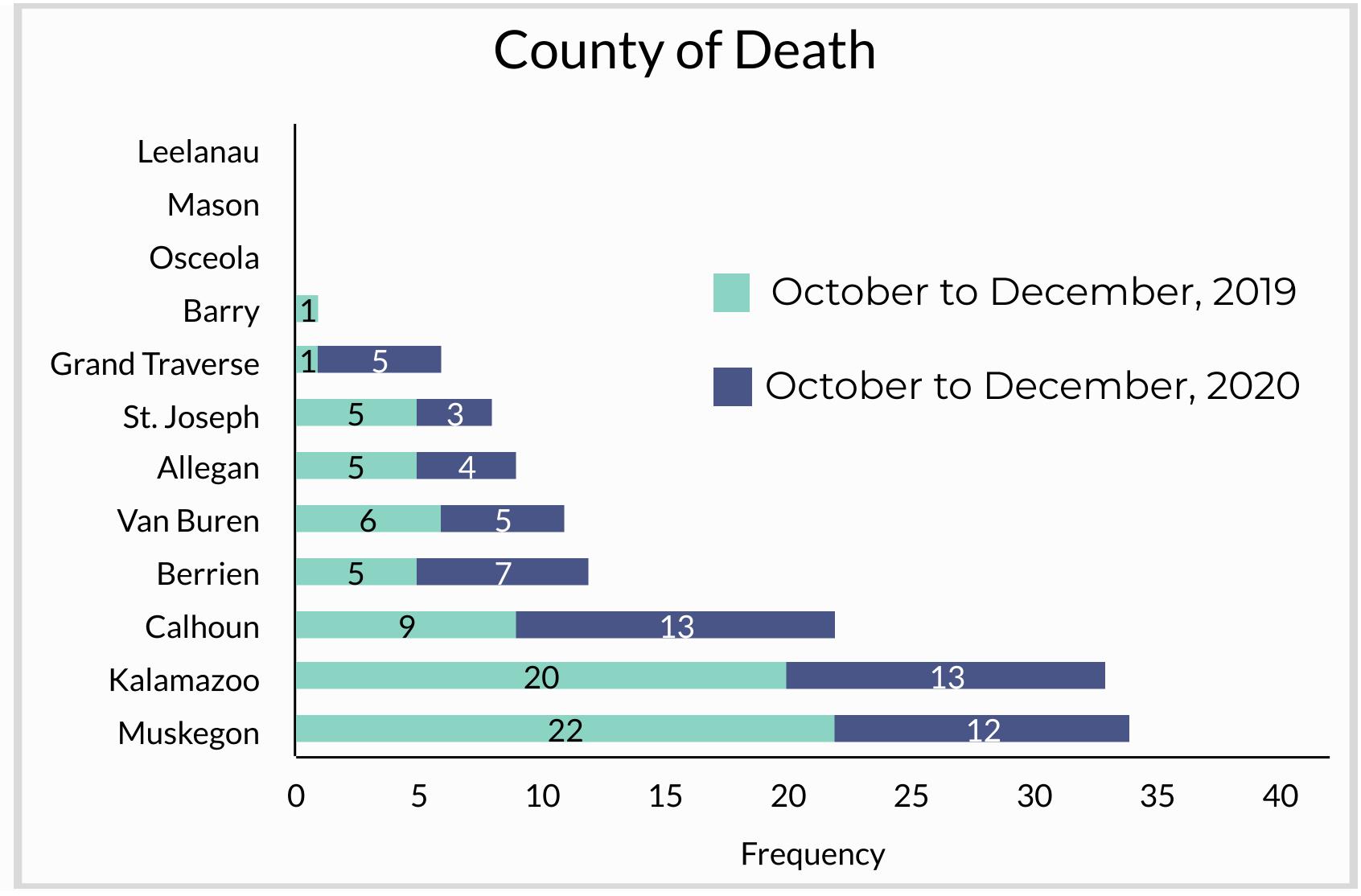
39 opioid and non-opioid



13 opioid only



10 non-opioid only



October to December, 2019
74 deaths

October to December, 2020

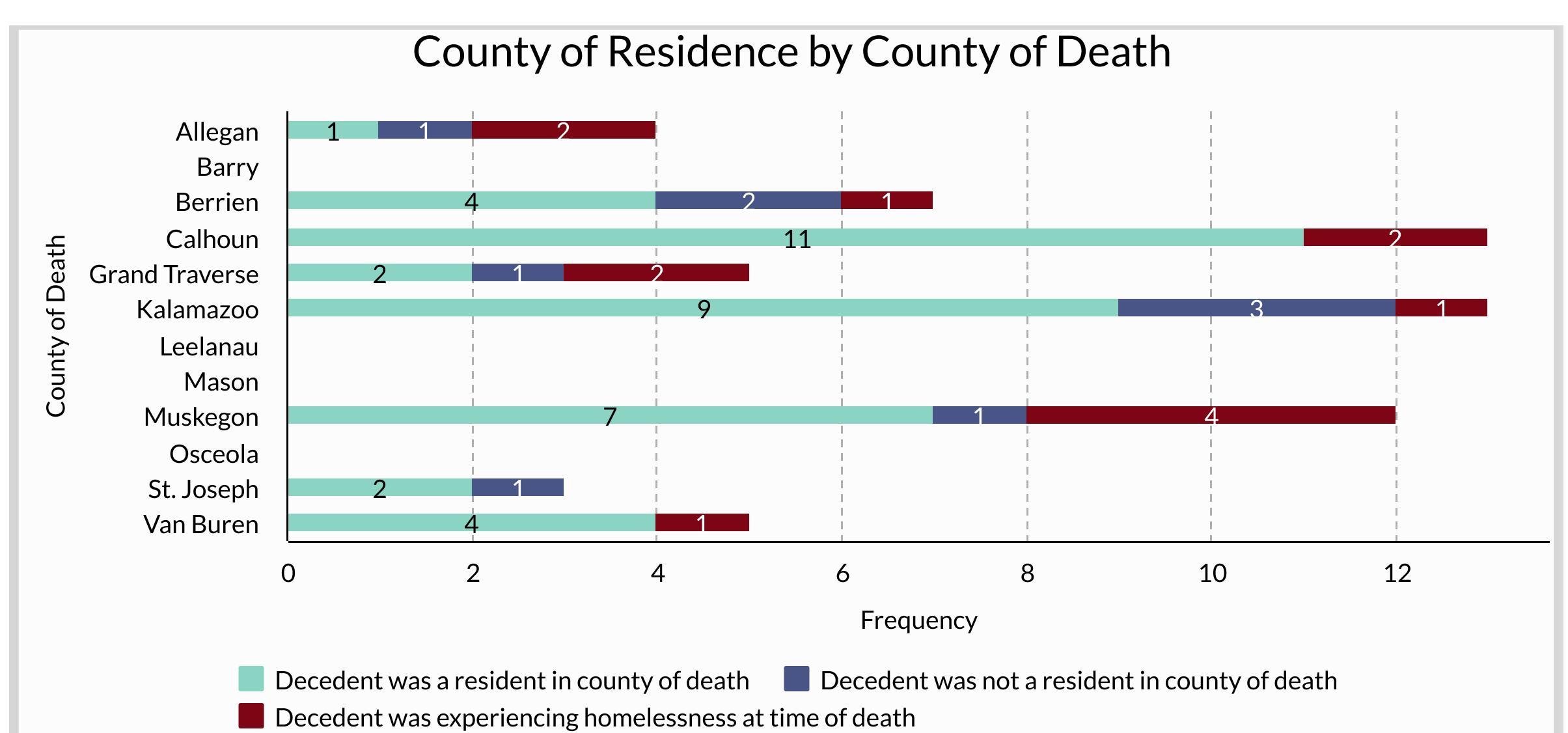
62 deaths

Drug-related deaths decreased



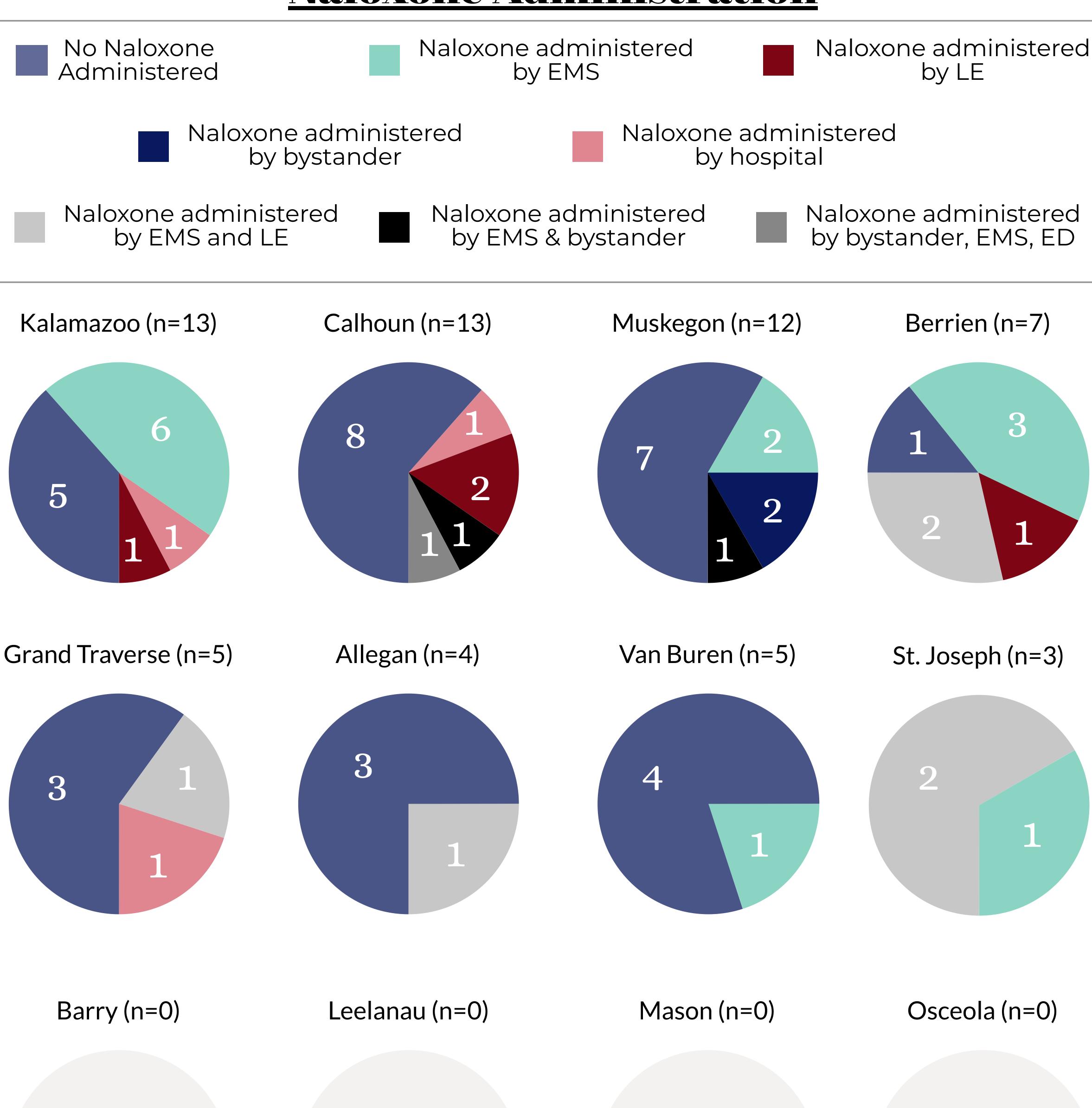
16%

from 2019 to 2020



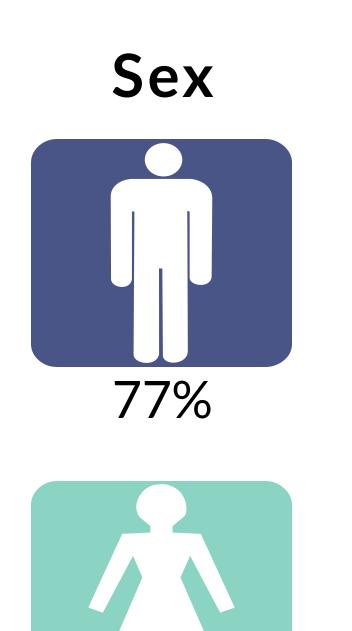
Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Naloxone Administration

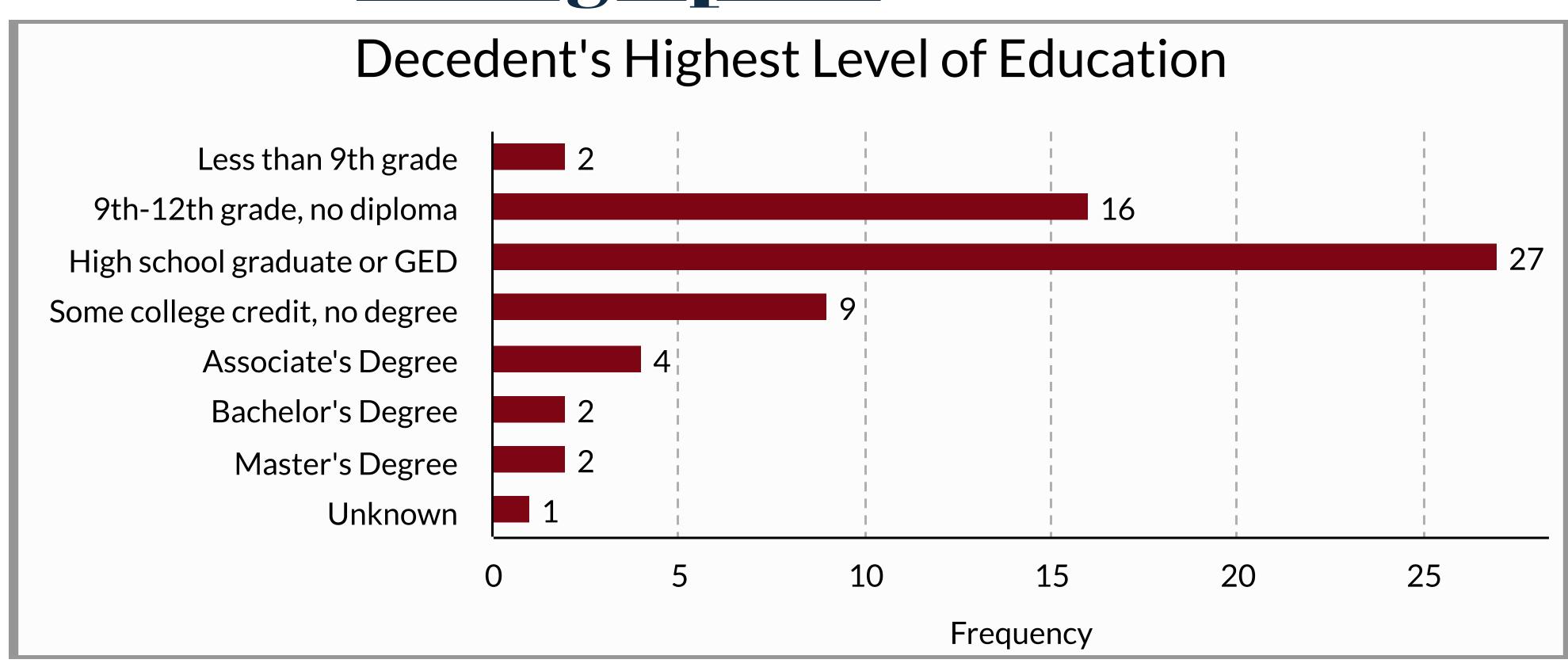


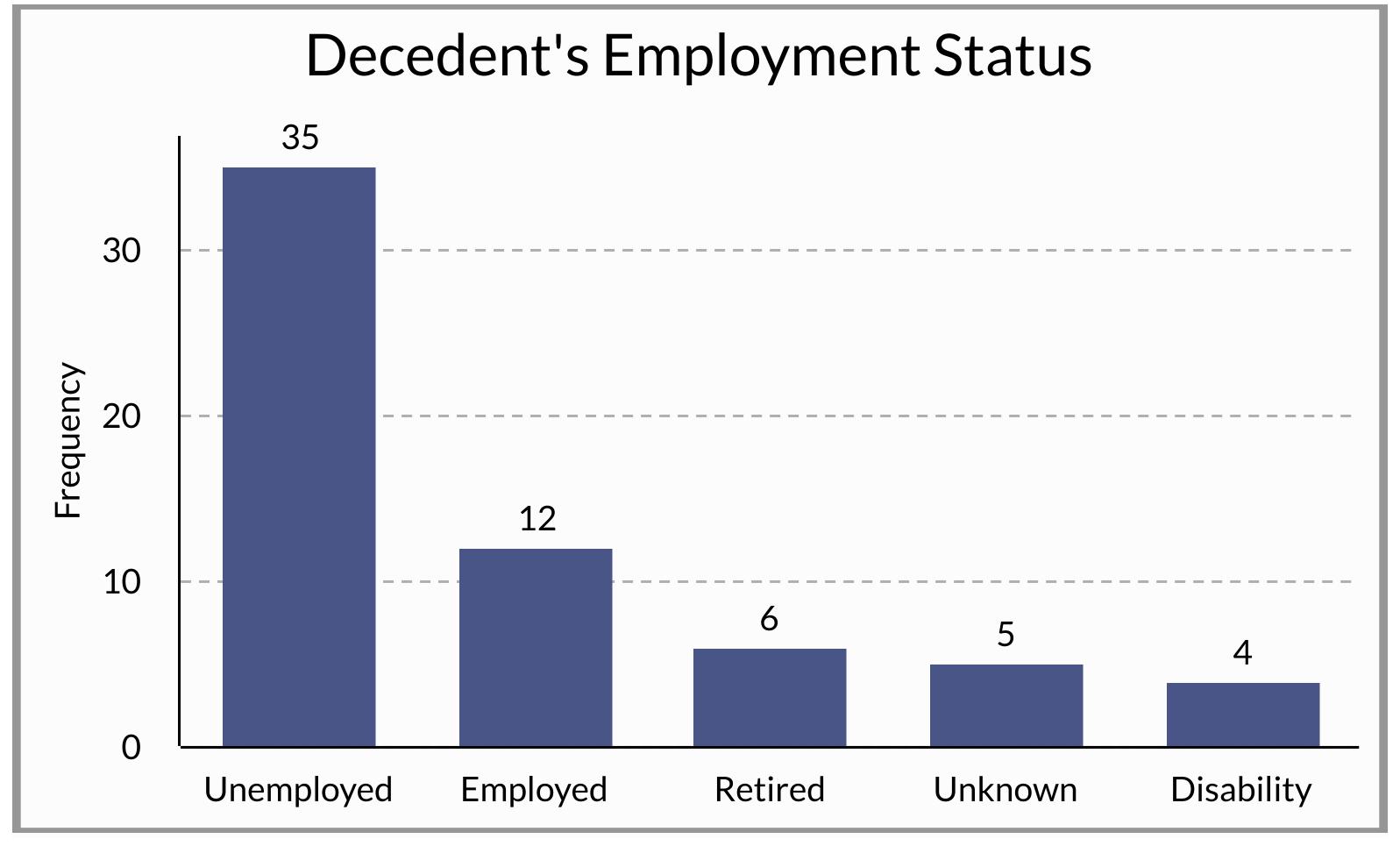
Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

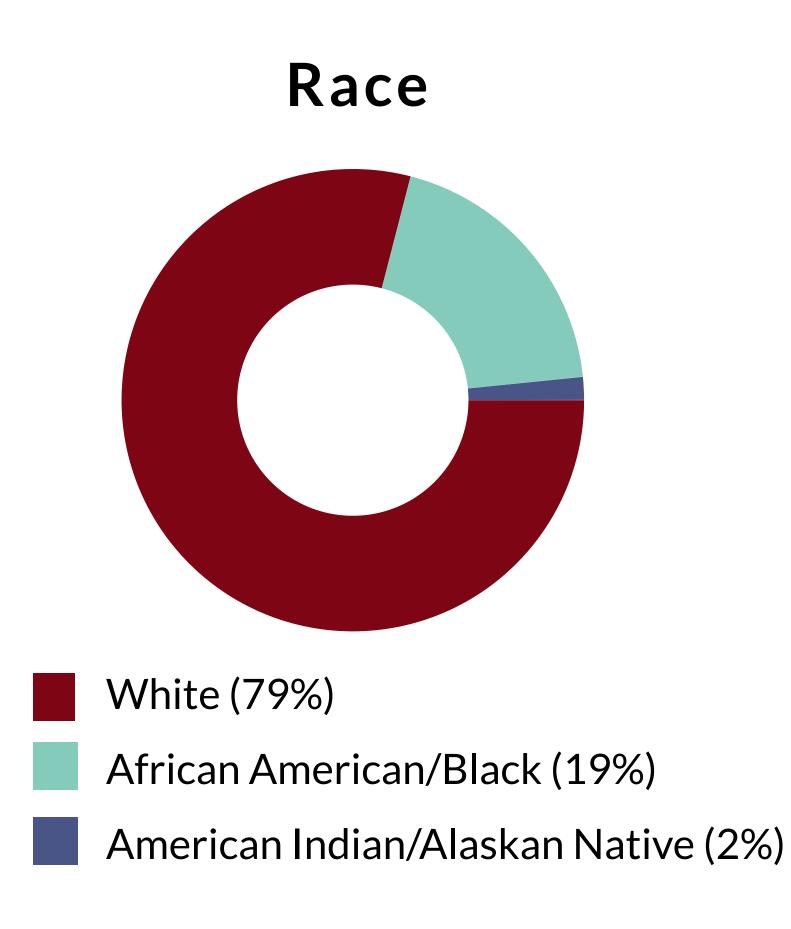
Demographics

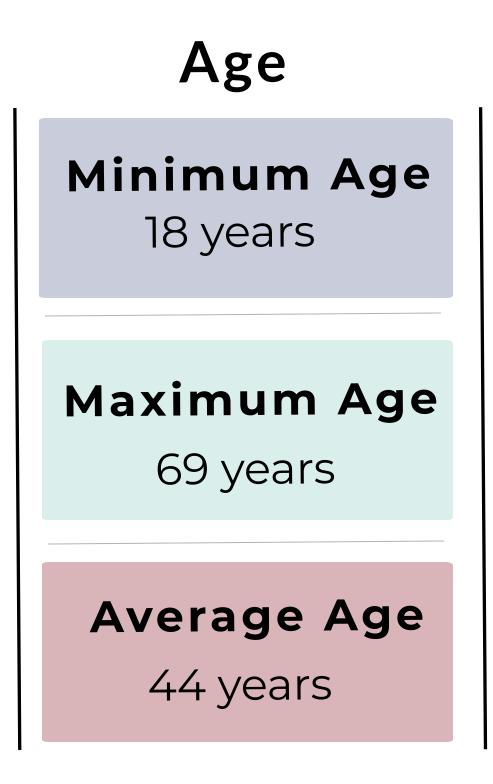


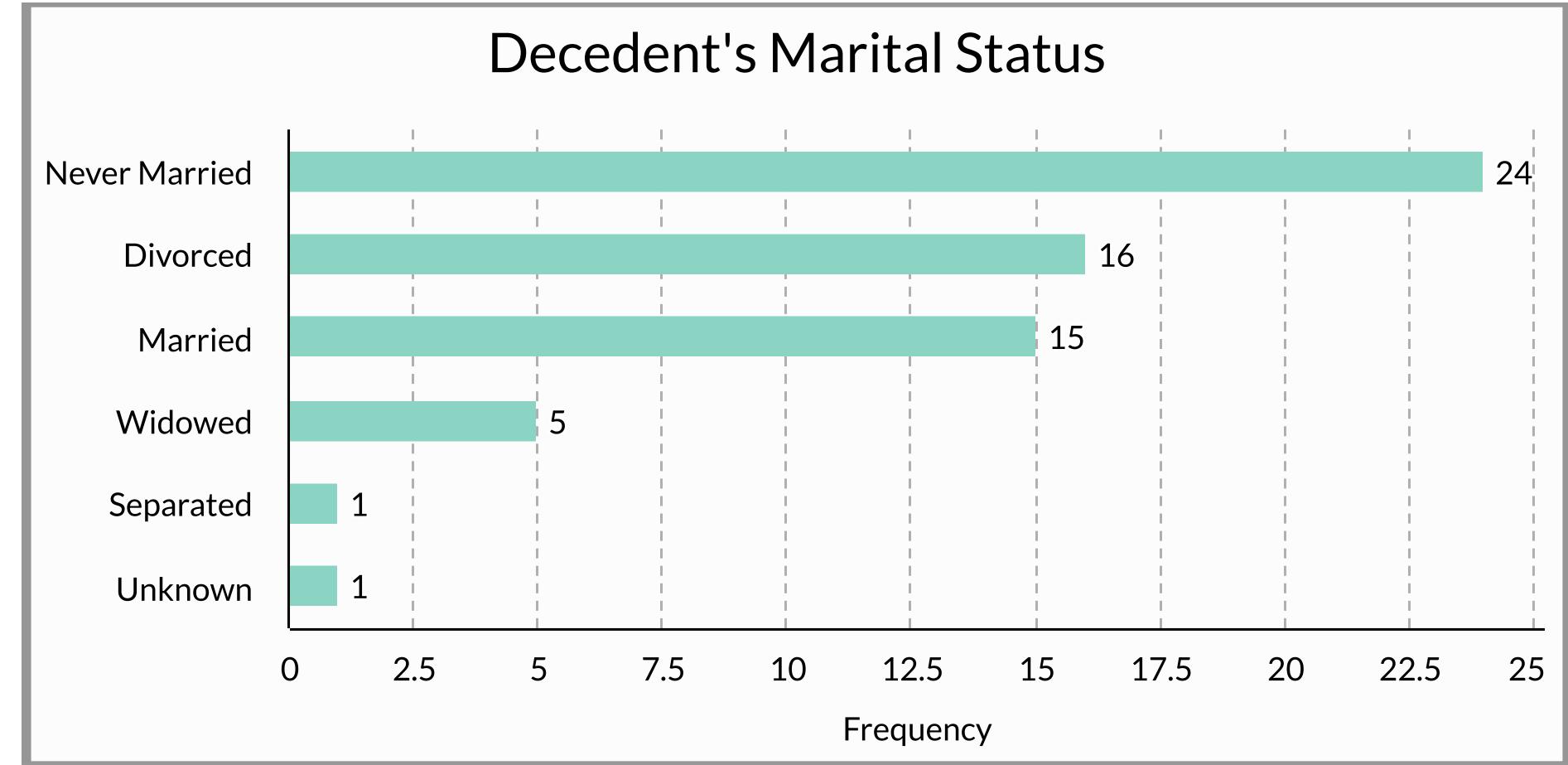
23%







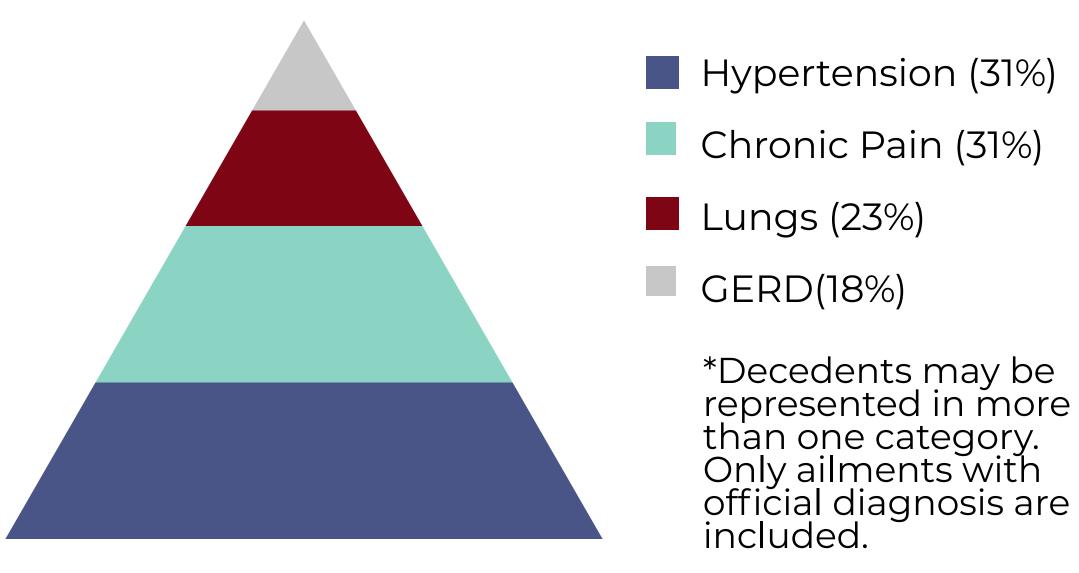


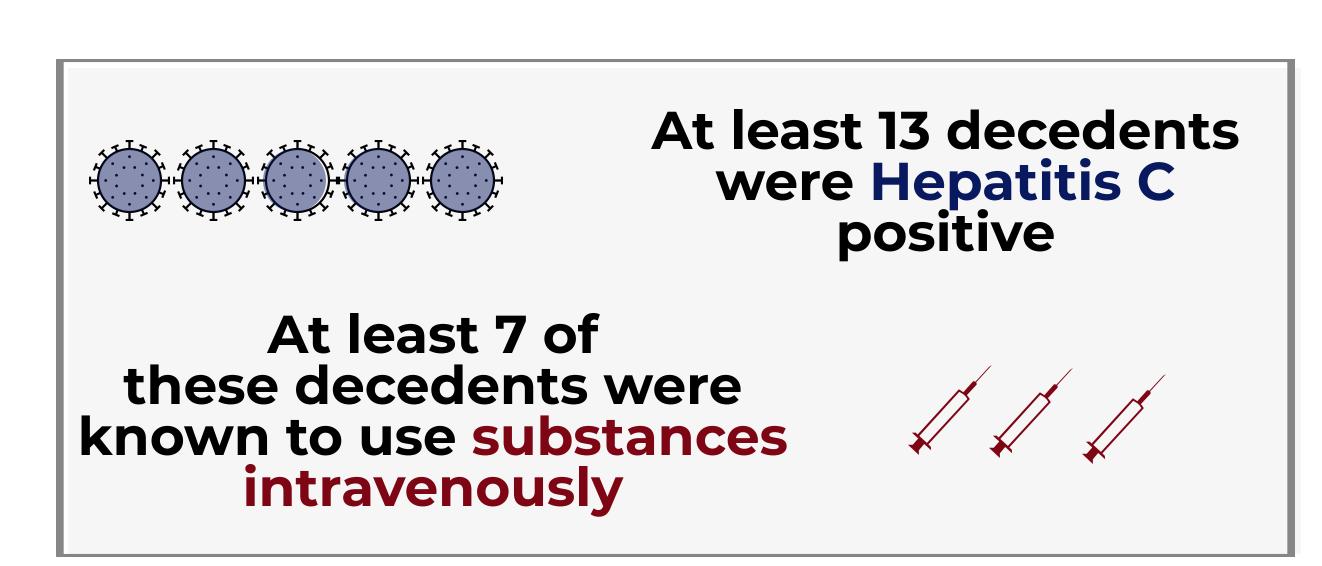


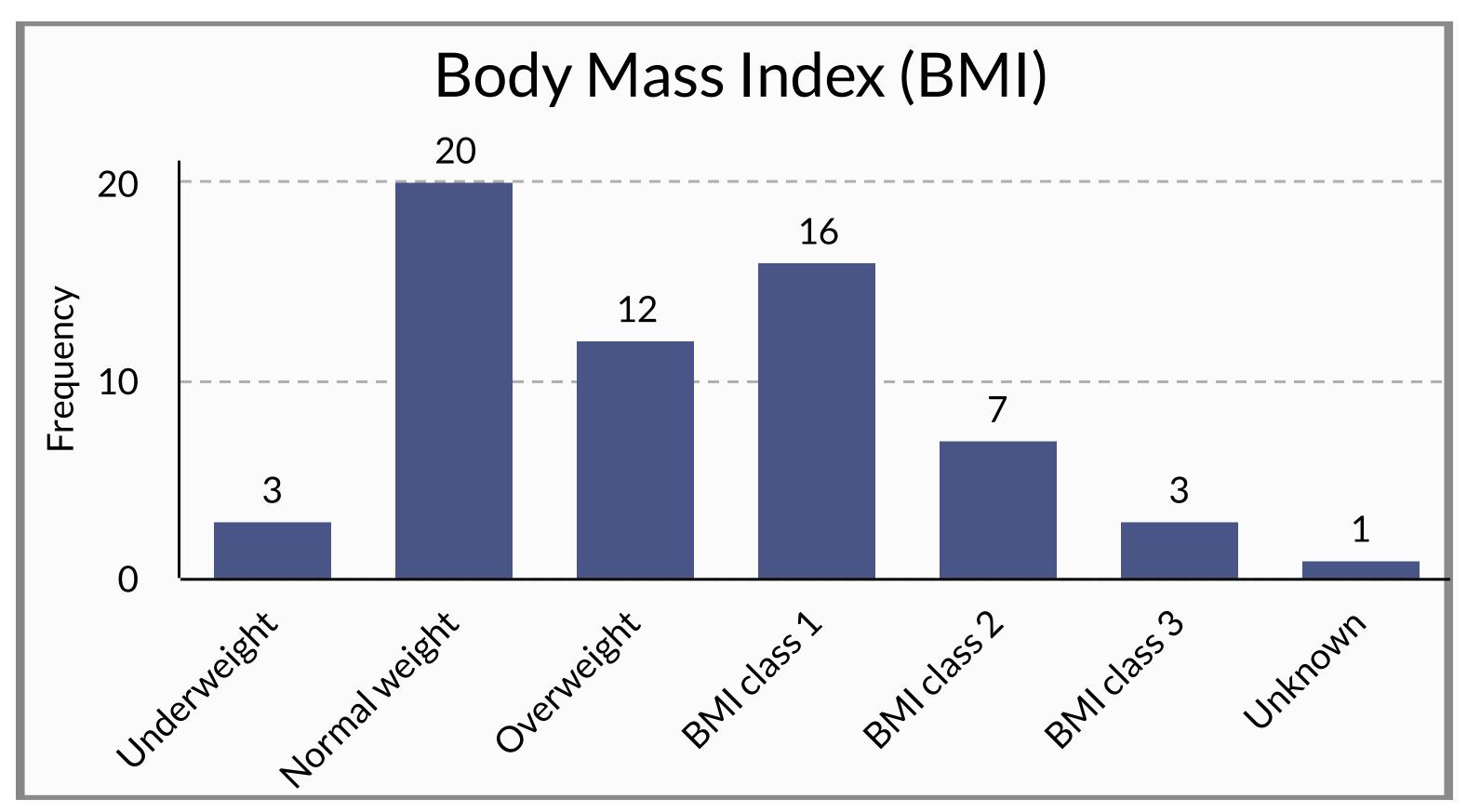
Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

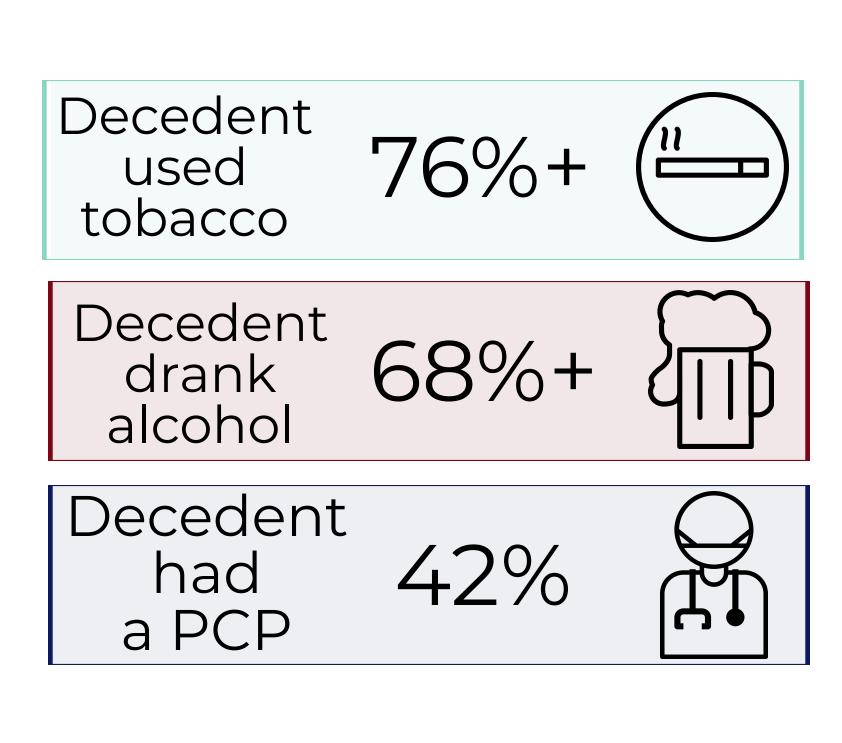
Health Factors

Most common ailments*

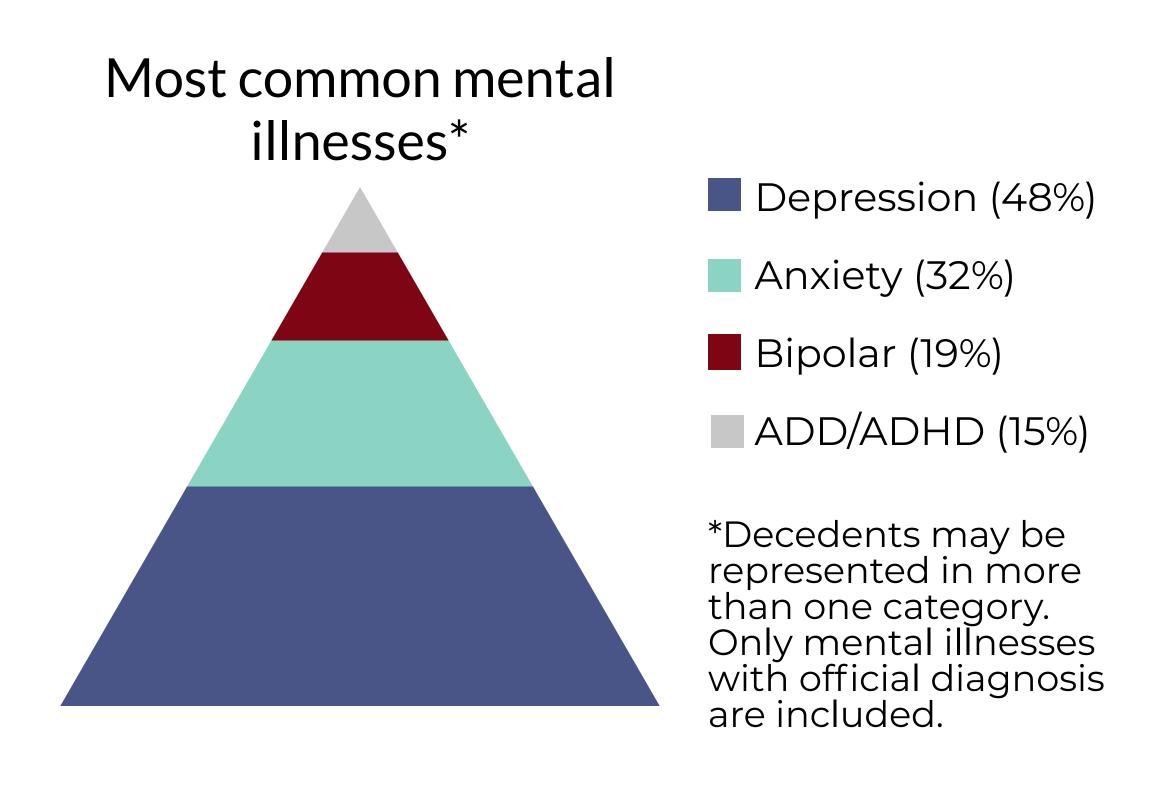


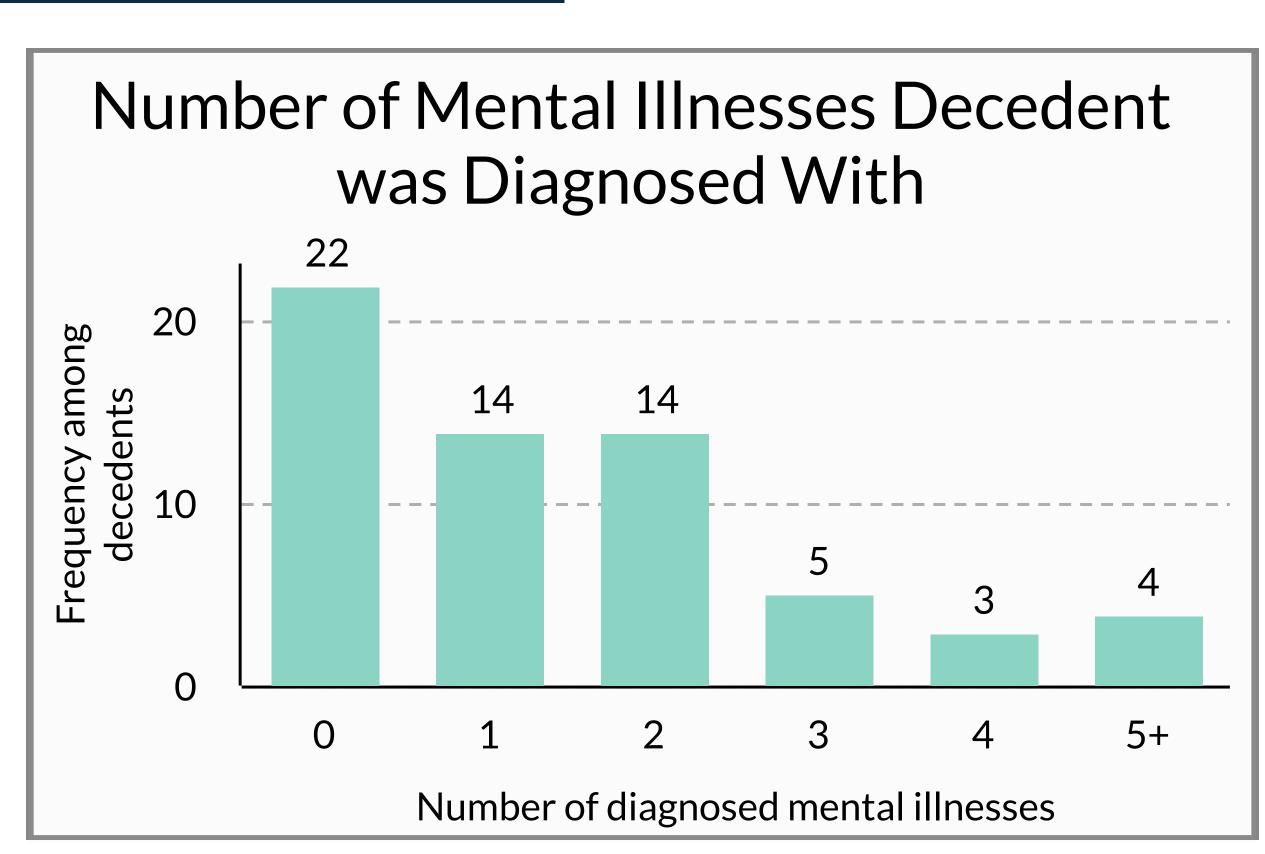






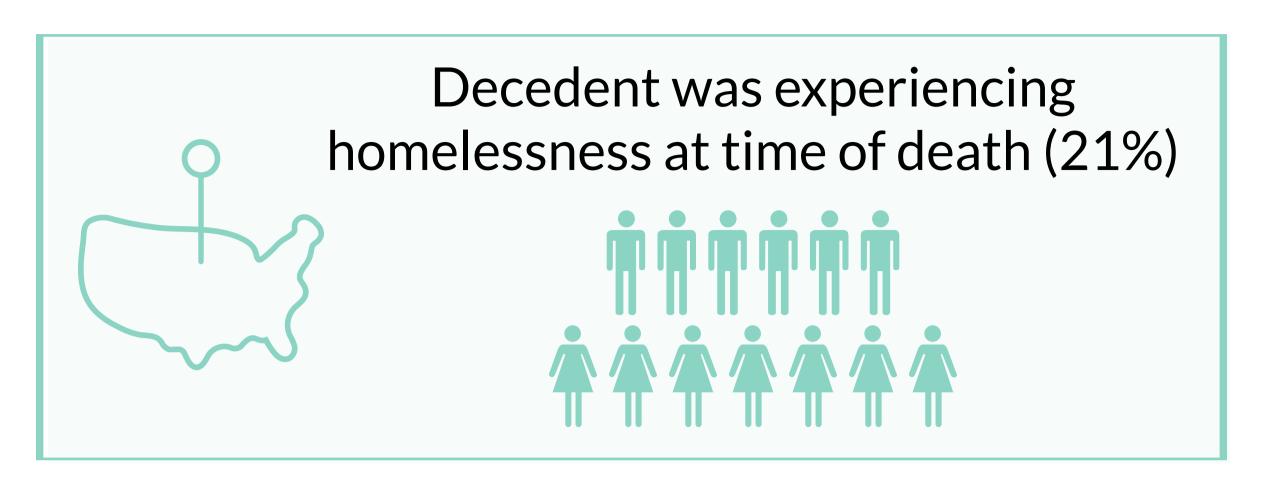
Mental Health Factors

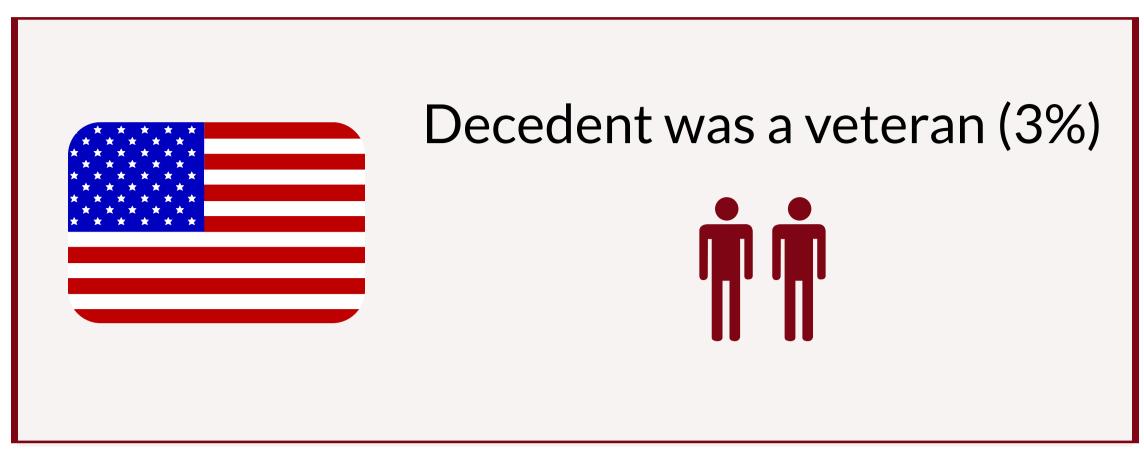




Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Social Factors

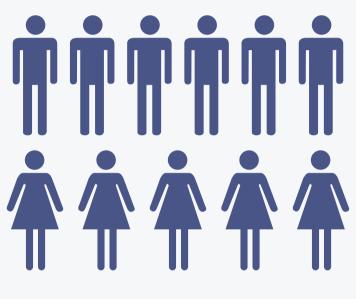




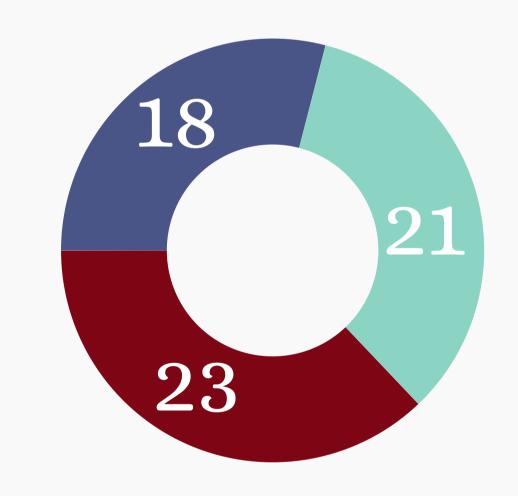


(31%)

Decedents ever incarcerated were released in past 2 months (58%)

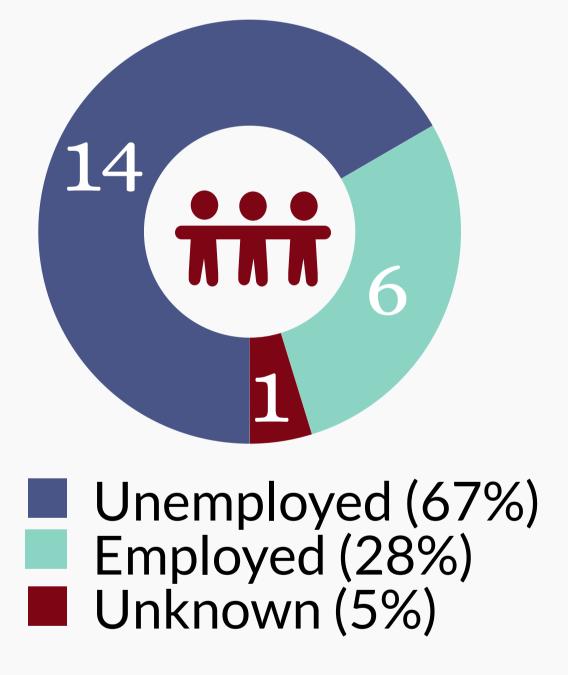




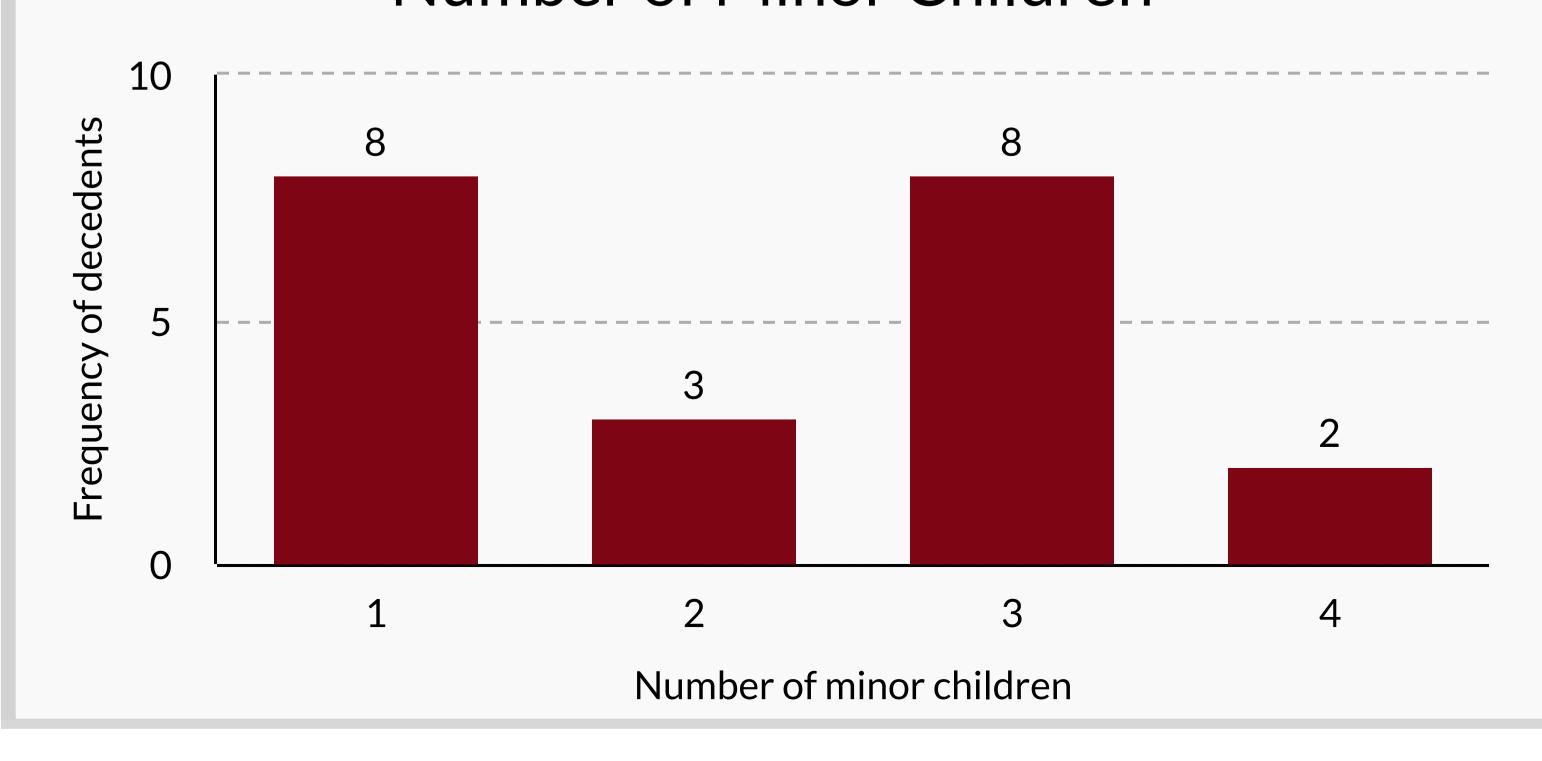


All adult children (29%)
At least one minor child (34%) No children (37%)

Employment Status of those with Minor Children



Number of Minor Children



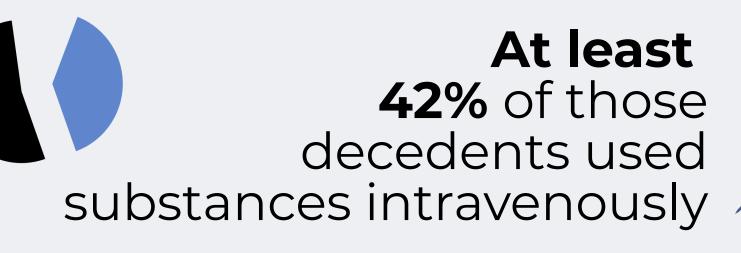
6 decedents lived with their minor child(ren) at time of death

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

Decedent's Substance Use History

At least 92% of decedents were known to use or abuse substances







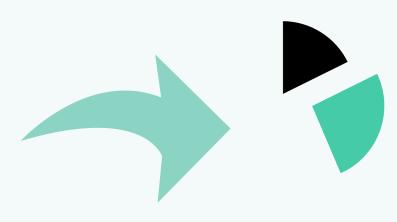
At least 39% of decedents were prescribed an opioid in the past 2 years



At least 10% of decedents substance use started from a prescribed opioid



At least 44% of decedents have had at least one overdose before their fatal overdose



59% of those decedents have had 2 or more overdoses before their fatal overdose

Decedent's typical substance of thoice

53%

45%

35%

HEROIN

COCAINE

METHAMPHETAMINE

Drugs found in toxicology results[†]

76%

37%

Fentanyl

METHAMPHETAMINE

8%

15%

HEROIN COCAINE

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

Recently sober in the past month

32%

Suspected reasons for relapse*



20%

Left jail/rehab



25%

Life stress**



55%

Unknown

*These factors were mentioned by those close to decedent (with substance use history) 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, a traumatic accident, and job loss.

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

35%

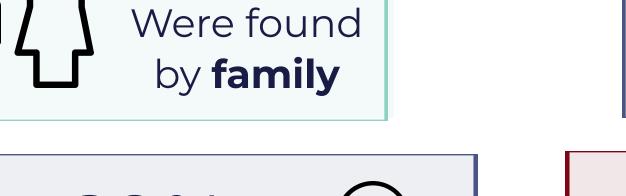
Decedent was receiving a form of MAT

15%

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

Death Scene Findings





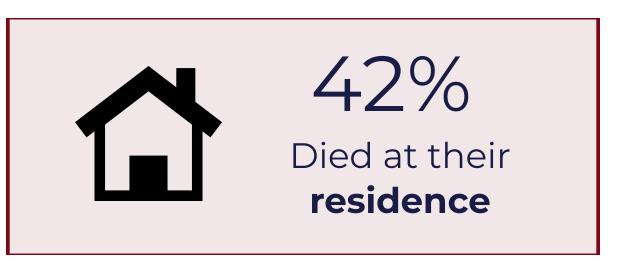








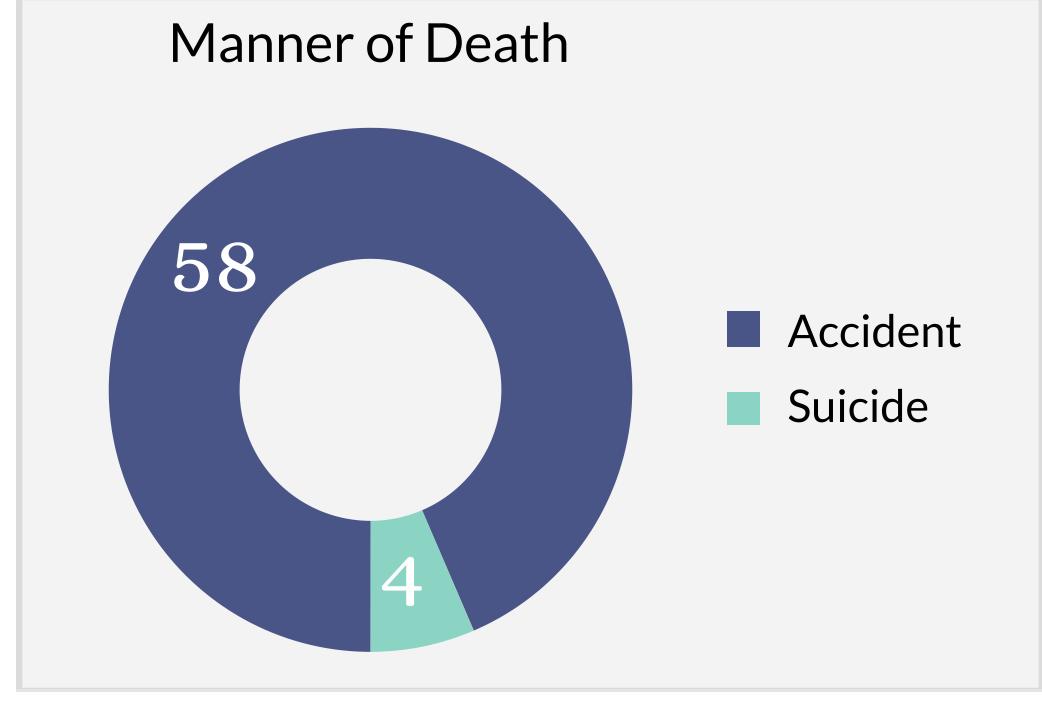


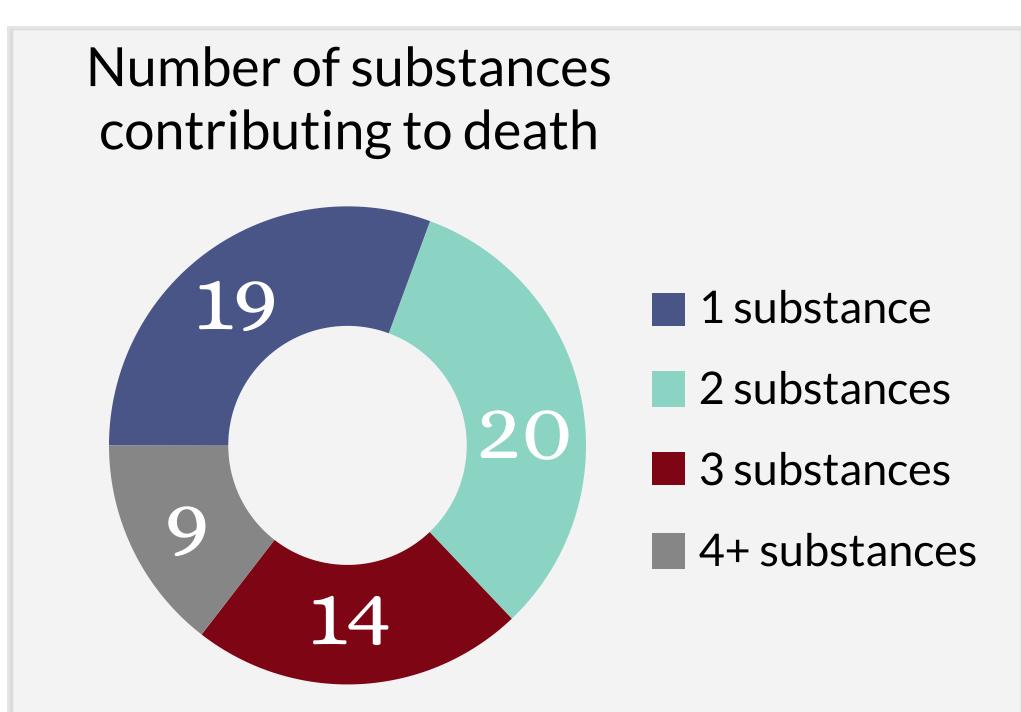


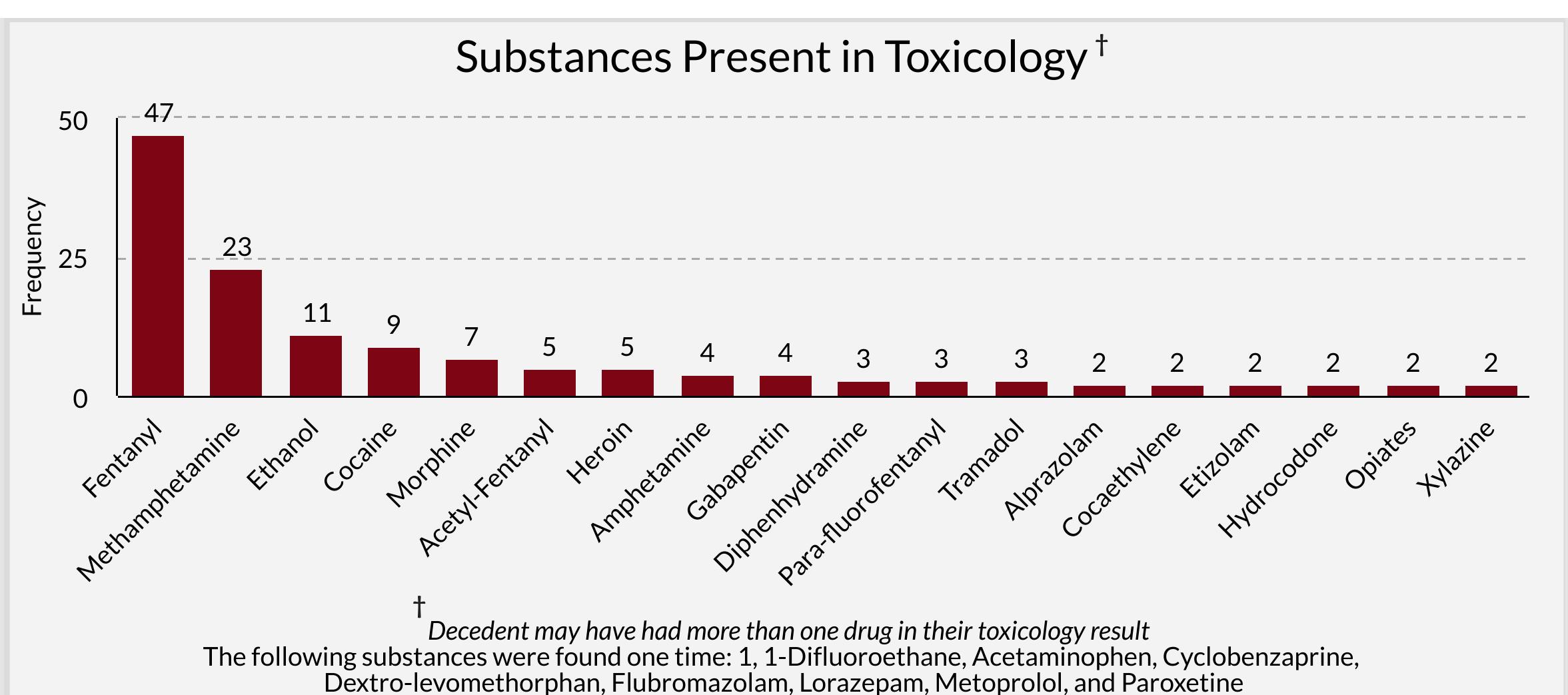




Autopsy and Toxicology Results

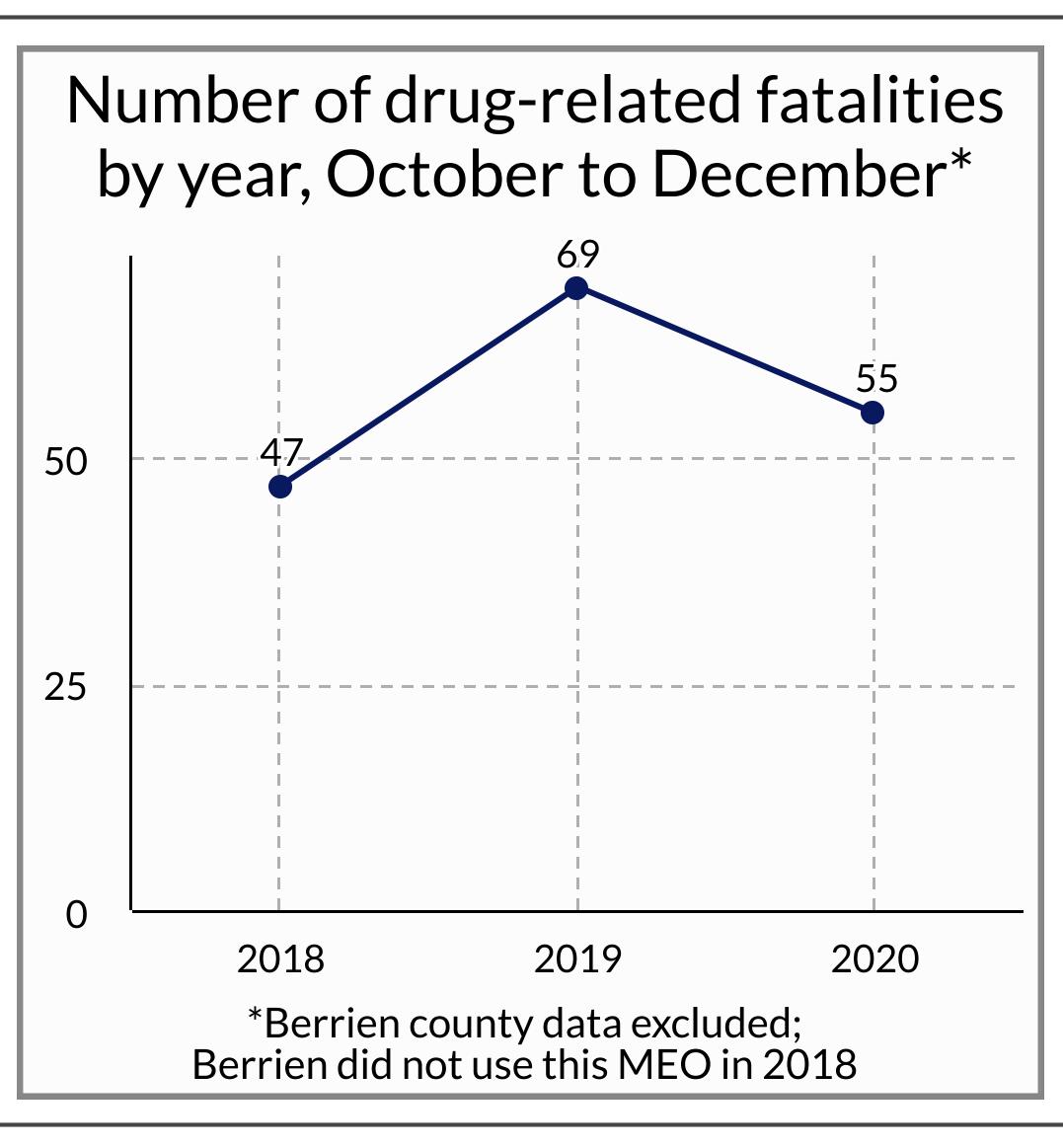


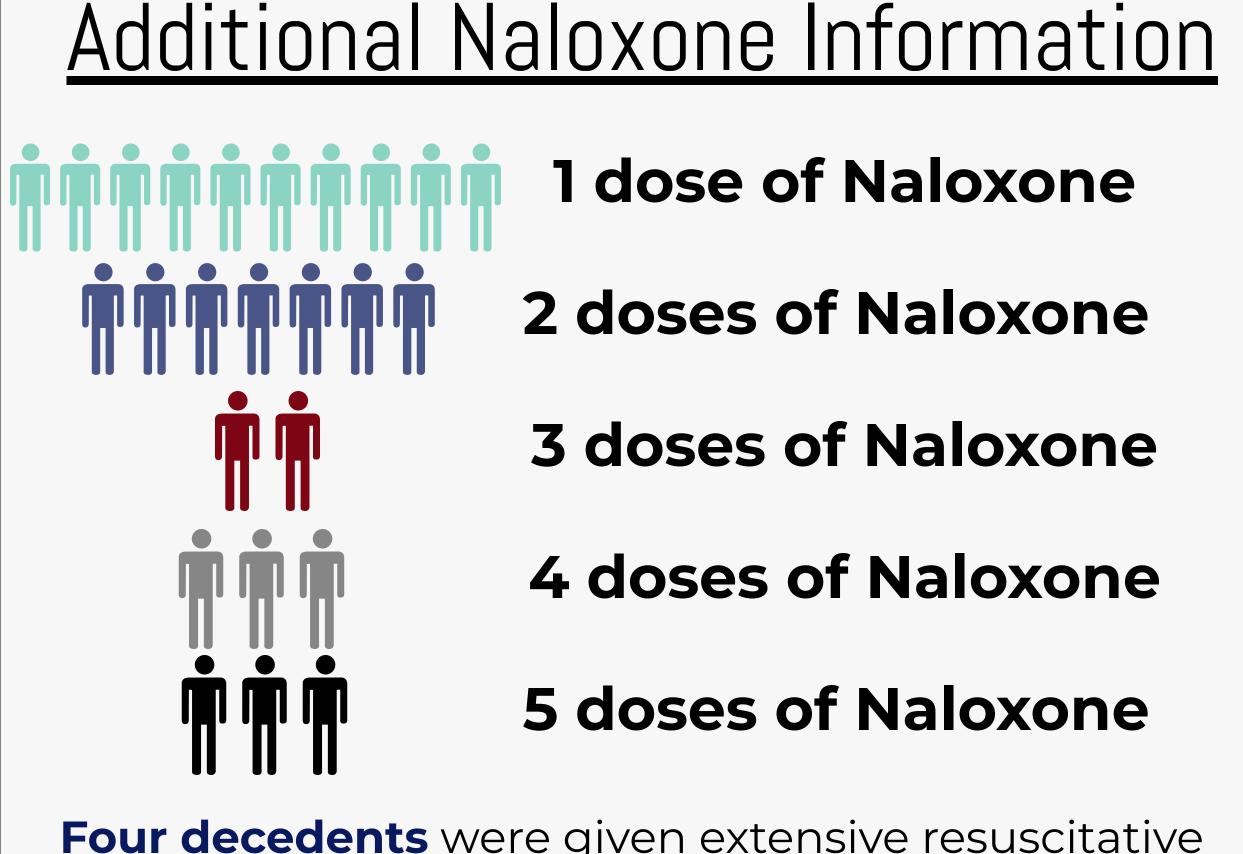




Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Highlights





Four decedents were given extensive resuscitative efforts CPR, epinephrine, AED shock) but were not given Naloxone.

Unknown dosage of Naloxone given to six decedents.

Positional

19% (10 of 52) of decedents with an opioid-related death were originally found in a potentially airway asphyxiating position

These positions include finding decedent found on the floor, bed, or on another surface

0% (0 of 10) of decedents who died of non-opioid substance(s) were originally found in a potentially airway asphyxiating position

Novel drug: Para-Fluorofentanyl

- Analogue of fentanyl
- Zero deaths due to para-fluorofentanyl in 2018/2019
 All three appearances occurred in Muskegon
 Continuing to increase in frequency in 2021

Substance combinations

Heroin & Fentanyl

Heroin contributed to 5 deaths, all 5 of these deaths also had fentanyl present

Methamphetamine & Opioids

2 decedents had methamphetamine and heroin in their toxicology report

18 decedents had methamphetamine and opioid(s) (including heroin) in their toxicology report

Xylazine & Fentanyl

Xylazine contributed to 2 deaths, both of these deaths also had fentanyl present