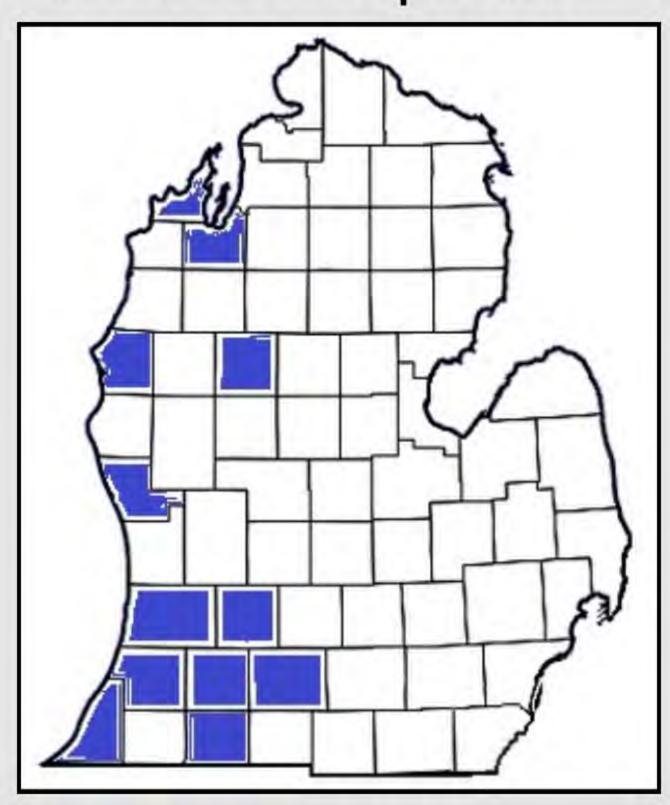
WMed Medical Examiner Office

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:

Naloxone Administration by EMS, Health Factors, Mental Health Factors, Social Factors, and Decedent Drug History.

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

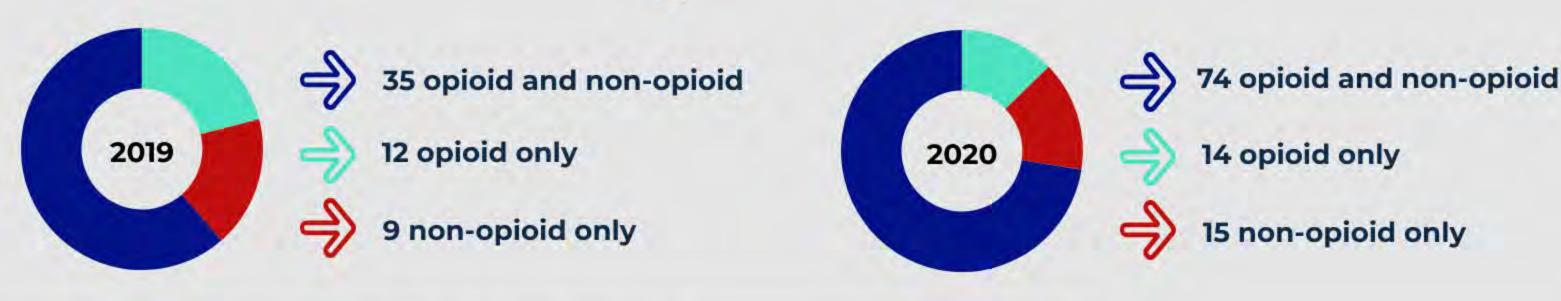
Please contact Chloe Bielby for additional information at chloe.bielby@med.wmich.edu

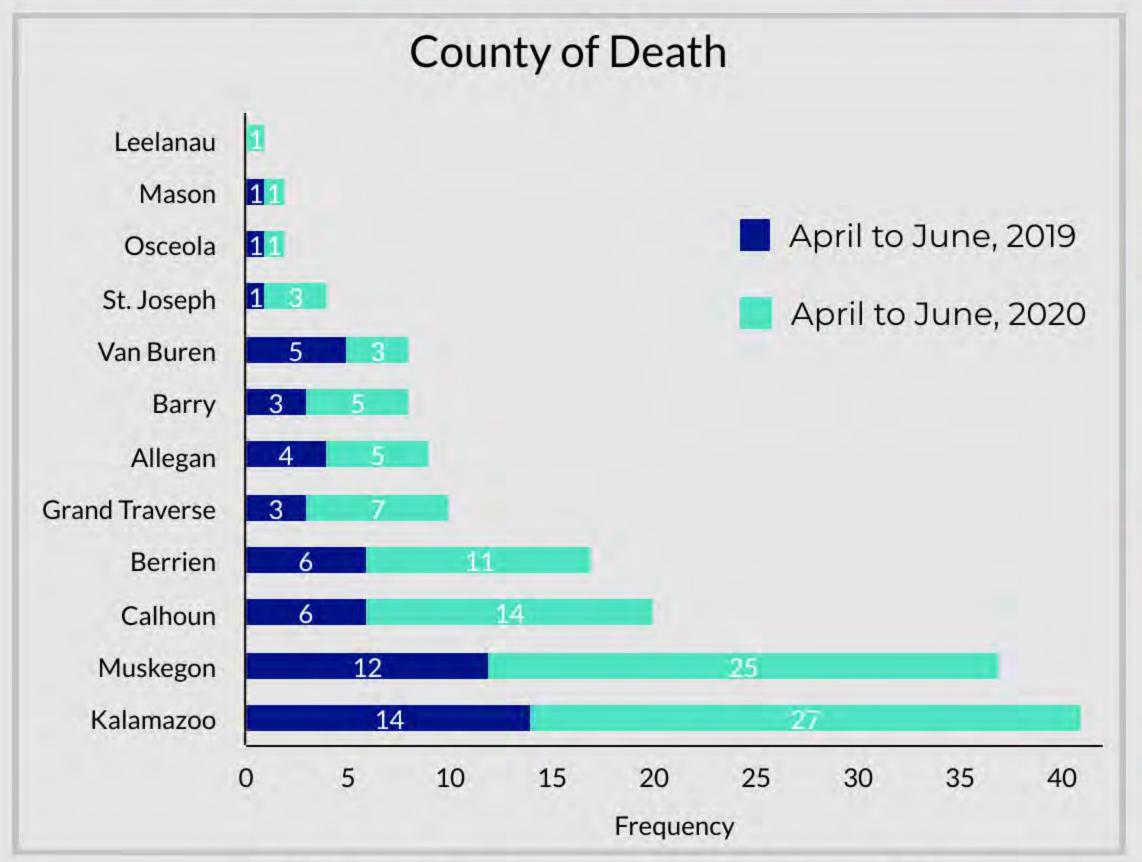
April to June 2020 Report — WMed Medical Examiner Office

Deaths Related to Opioids and Other Drugs

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

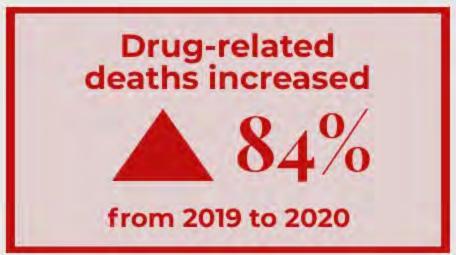
Total Drug-Related Deaths



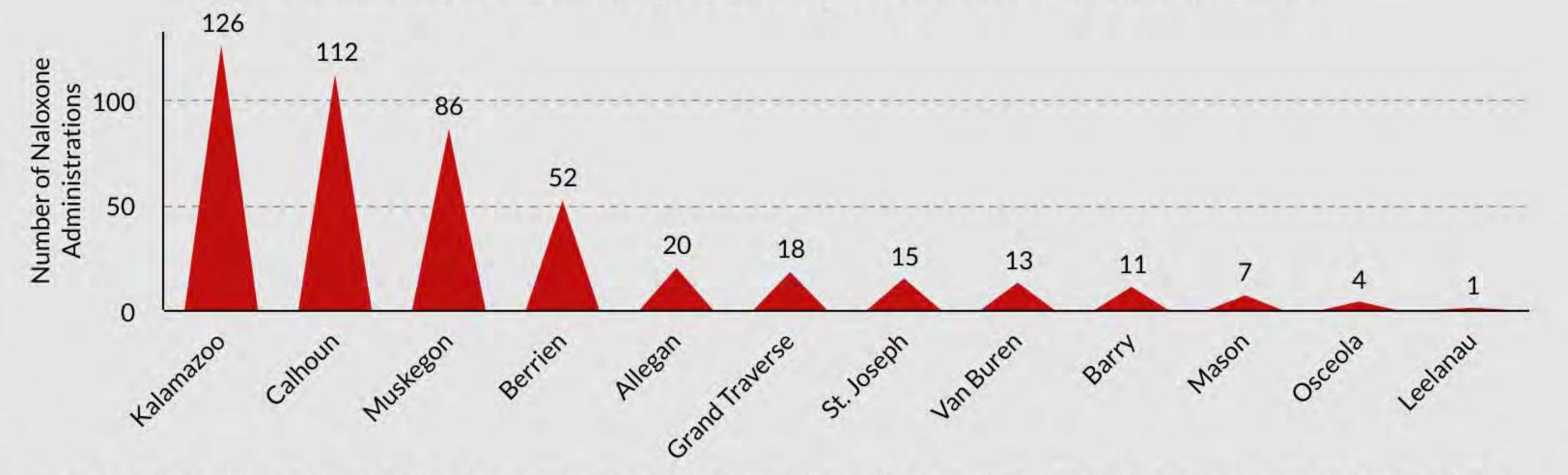


April to June, 2019
56 deaths

April to June, 2020
103 deaths



Total Naloxone Administrations by EMS, Fatal and Non-Fatal*



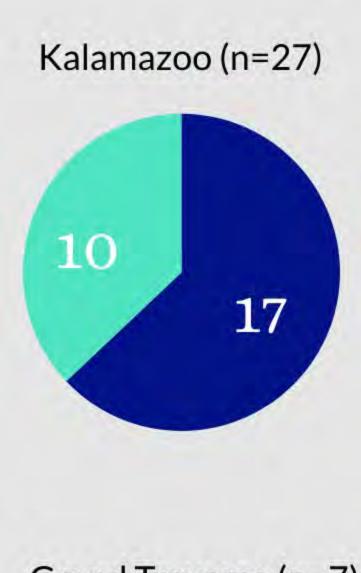
*Graphs indicate an estimated number of suspected overdoses with EMS intervention occurring in each county. Data includes suspected fatal and non-fatal overdoses. Data is from the System of Overdose Surveillance at the University of Michigan and is intended for those in public health and public safety.

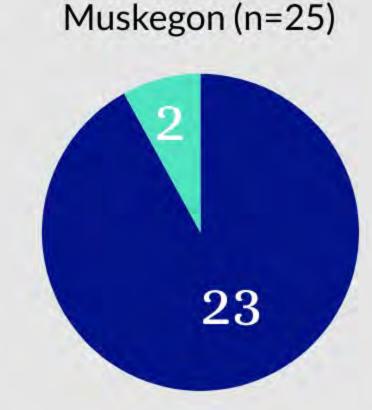
Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

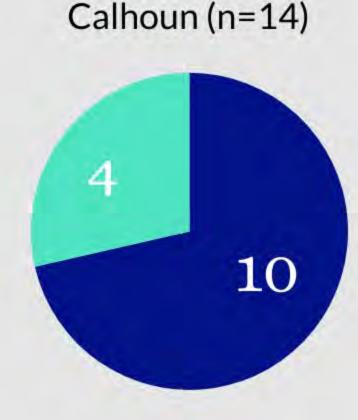
Confirmed Fatal Overdoses by Narcan Administration

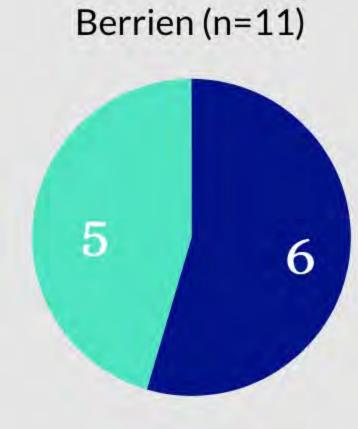


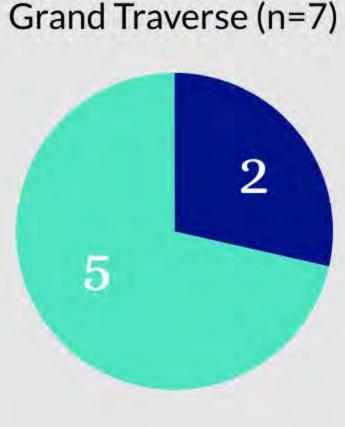


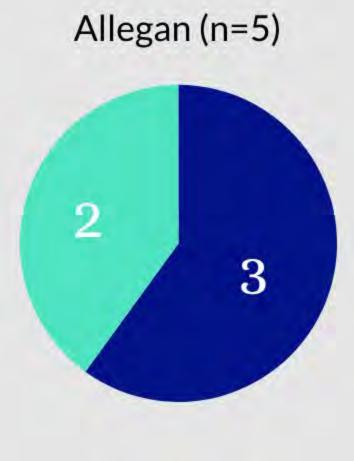


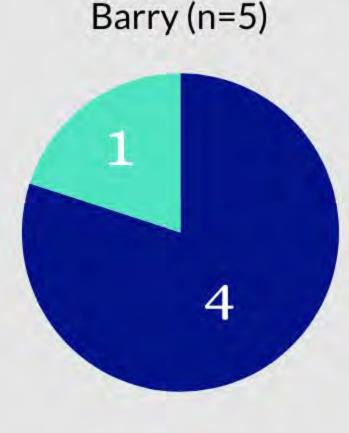




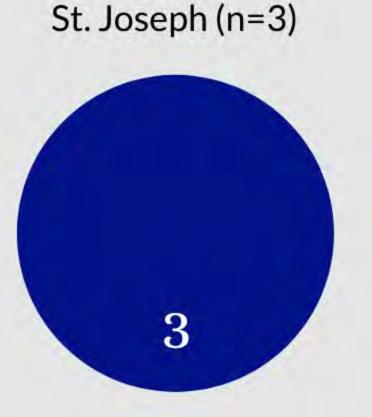












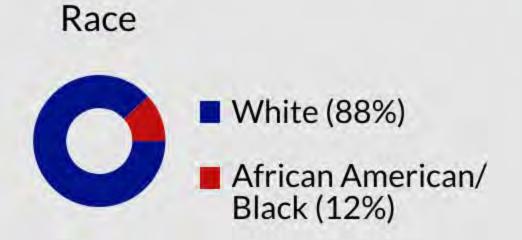


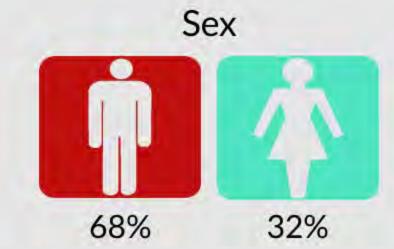


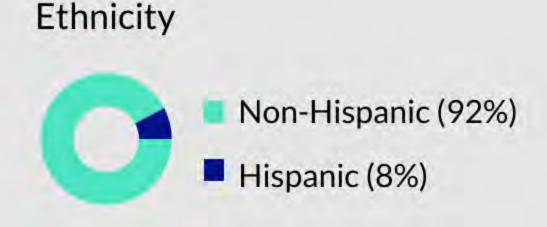


Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Demographics

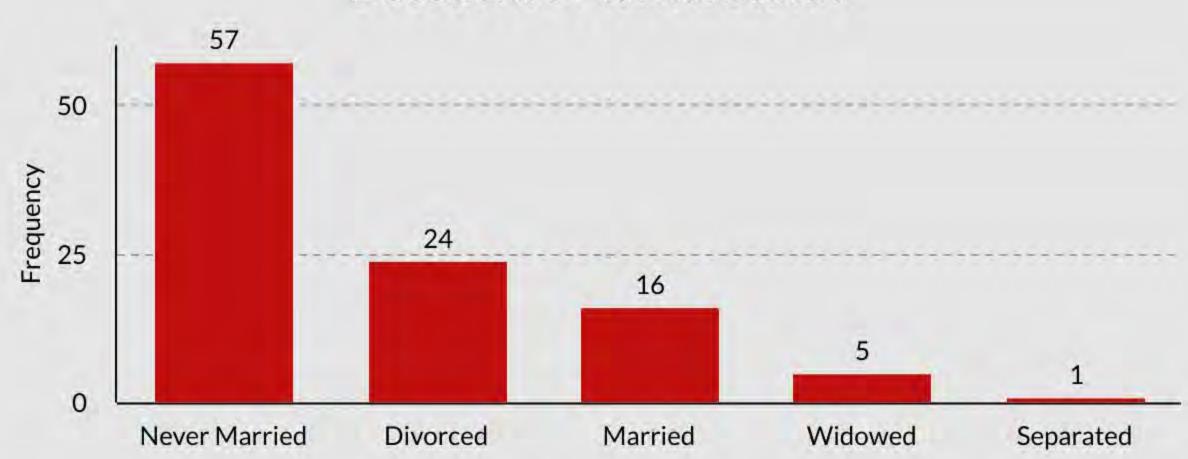




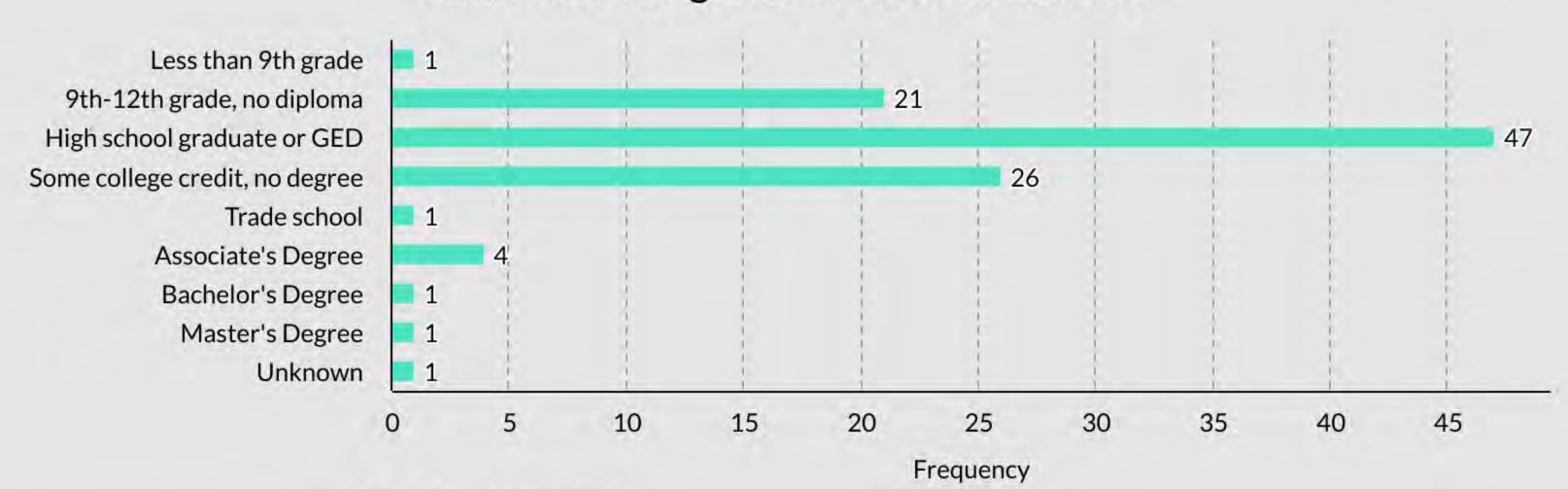


Decedent's Marital Status

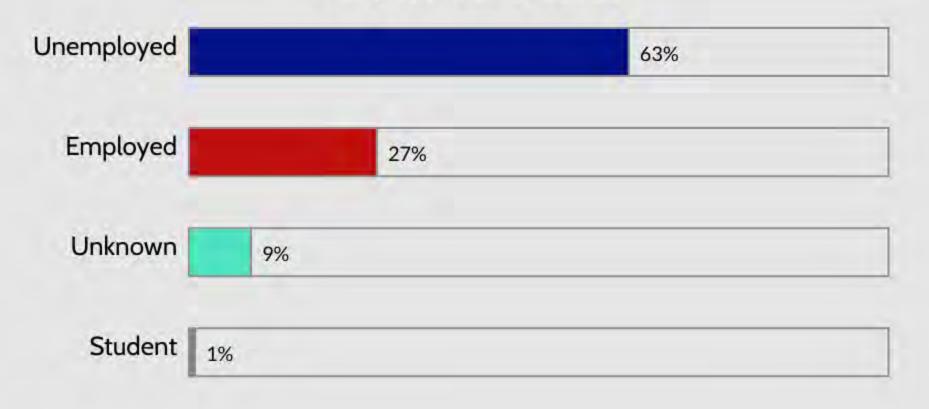




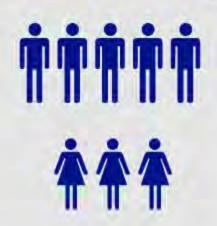
Decedent's Highest Level of Education



Employment status

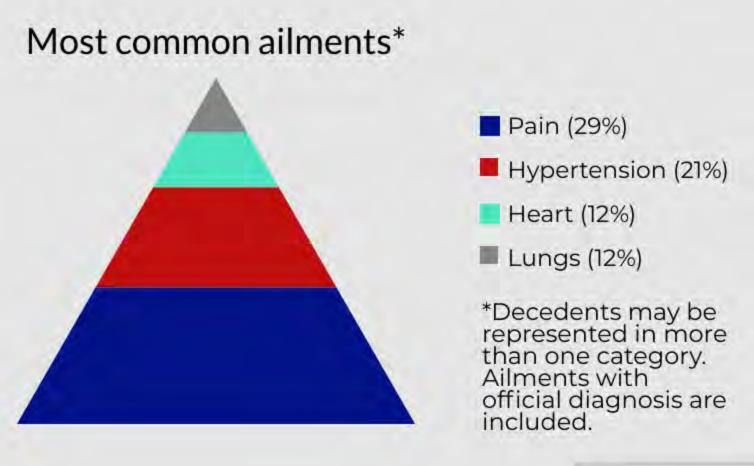


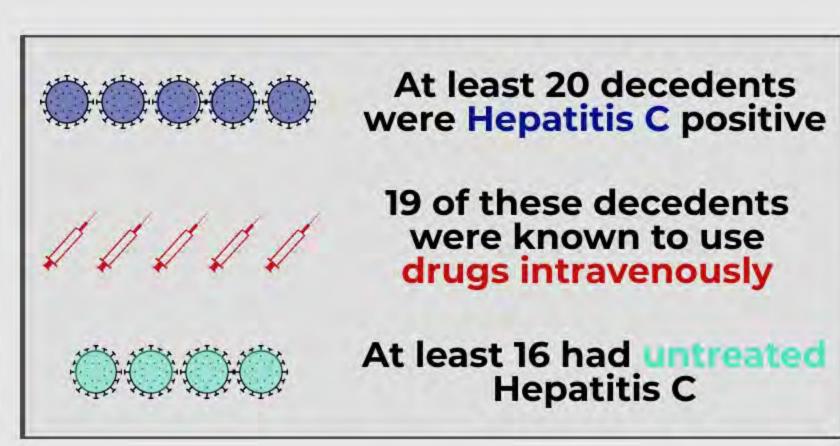
Number of decedents who were unemployed or furloughed due to COVID-19 (8)

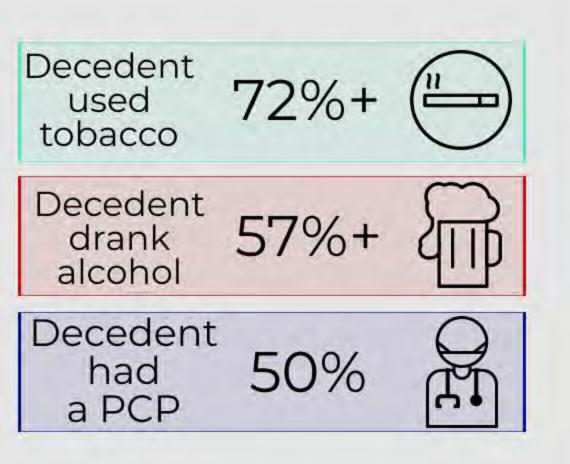


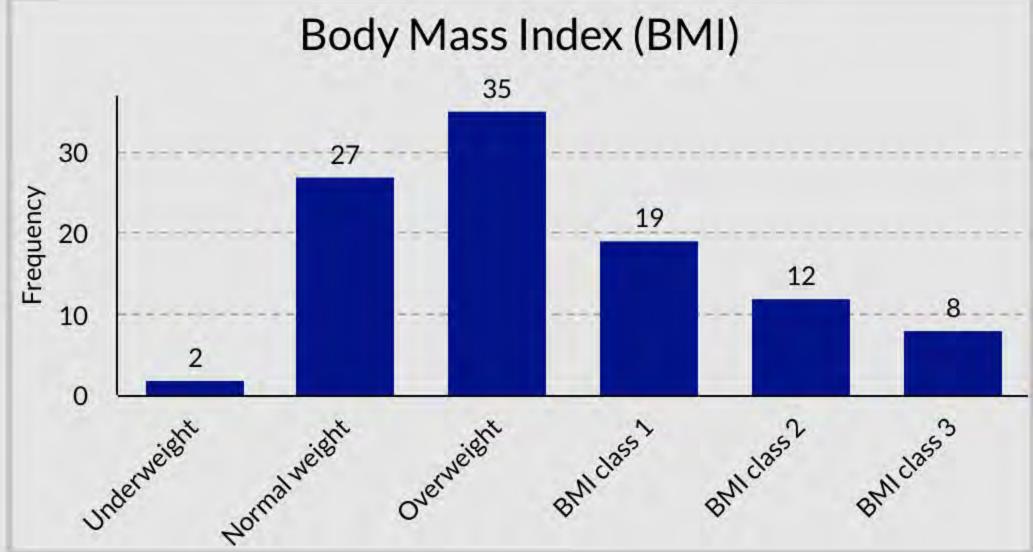
Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

Health Factors

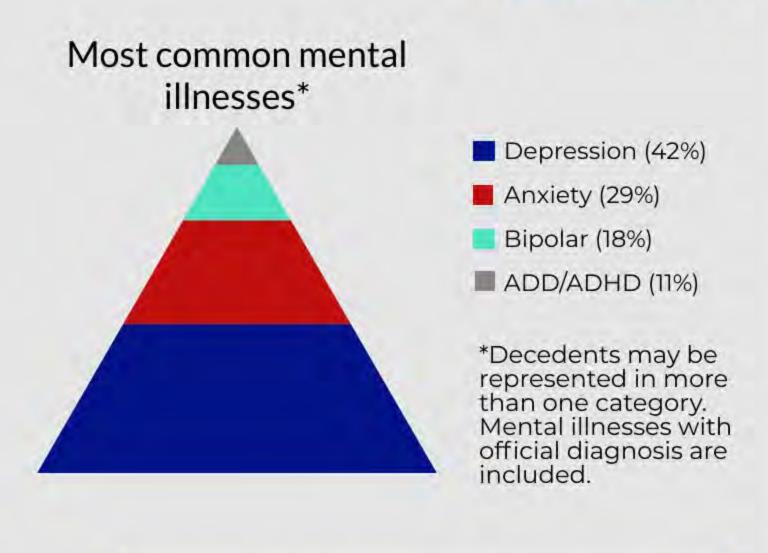


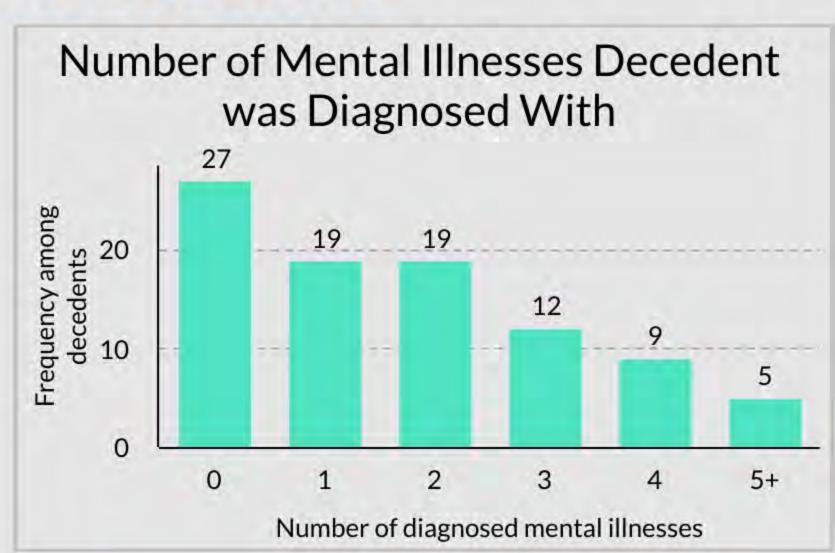






Mental Health Factors



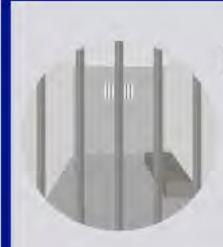


Allegan, Barry, Berrien, Calhoun, Grand Traverse, Kalamazoo, Leelanau, Mason, Muskegon, Osceola, St. Joseph, Van Buren

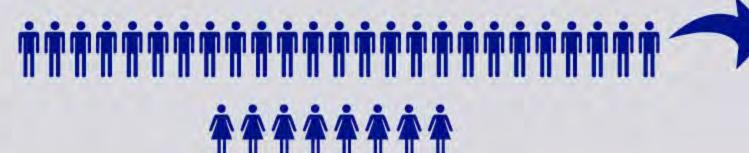
Social Factors







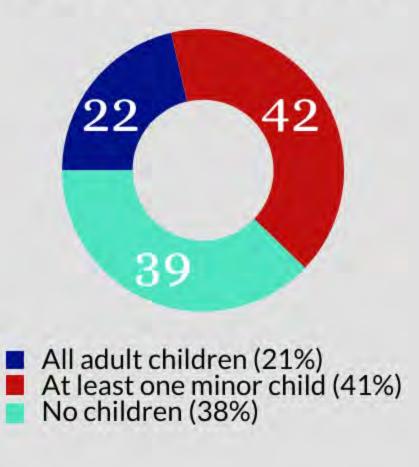
Decedent has ever been incarcerated (32%)



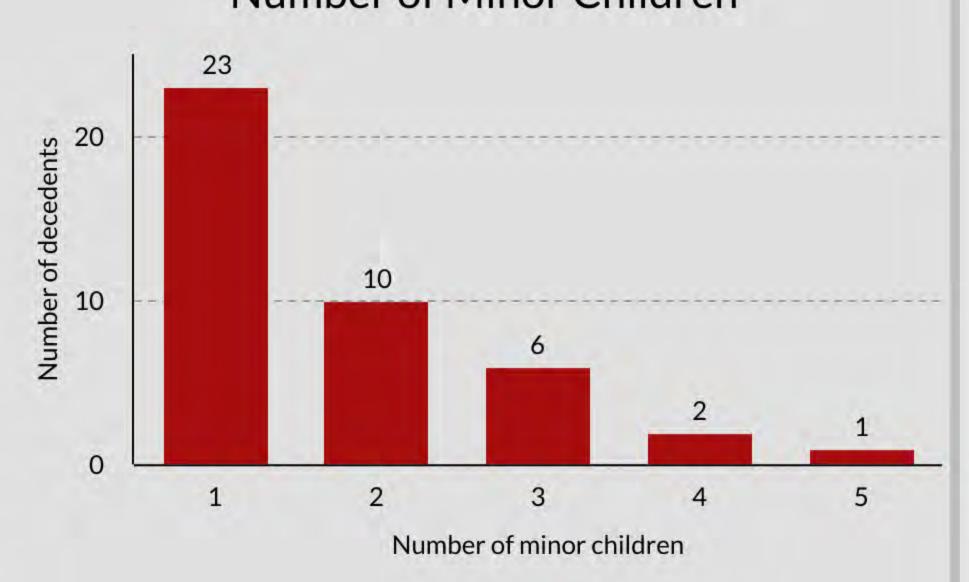
Decedents ever incarcerated were released in past 2 months (21%)



Decedent's Child Status



Number of Minor Children



Employment Status of those with Minor Children



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

April to June 2020 Report

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Deaths Related to Opioids and Other Drugs

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Decedent's Drug History

At least 89% of decedents were known to use or abuse drugs



At least 64% of those decedents used their drugs intravenously.





At least 47% of decedents were prescribed an opioid in the past 2 years



54% of those decedent's drug use started from the prescribed opioid

At least 40% of decedents have had at least one overdose before their fatal overdose



At least 66% of those decedents have had 2 or more overdoses before their fatal overdose



Decedent's typical drug of choice[†]

65%

35%

35%

HEROIN

METHAMPHETAMINE

COCAINE

Drugs found in toxicology results†

76%

40%

Fentanyl

METHAMPHETAMINE

19%

17%

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 6 months

36%

Suspected reasons for relapse*



35%

Left a rehabilitation clinic or jail



27%

Life stress**



Unknown/Other

*These factors were mentioned by those close to decedent (with past drug-use) for why they may have begun to use drugs again after a period of sobriety ranging from a few months to years.

**Life stress includes a recent fight with a significant other, losing their job, paranoia regarding COVID-19, and loss of a friend.

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

38%

Decedent had someone close to them die from an overdose

10%

WMed Medical Examiner Office April to June 2020 Report

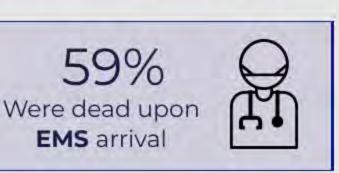
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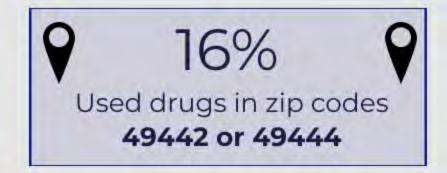
Death Scene Findings









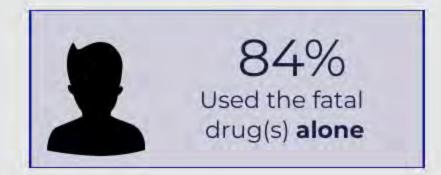


Syringes and suspected illicit drugs were the most common paraphernalia found on scene

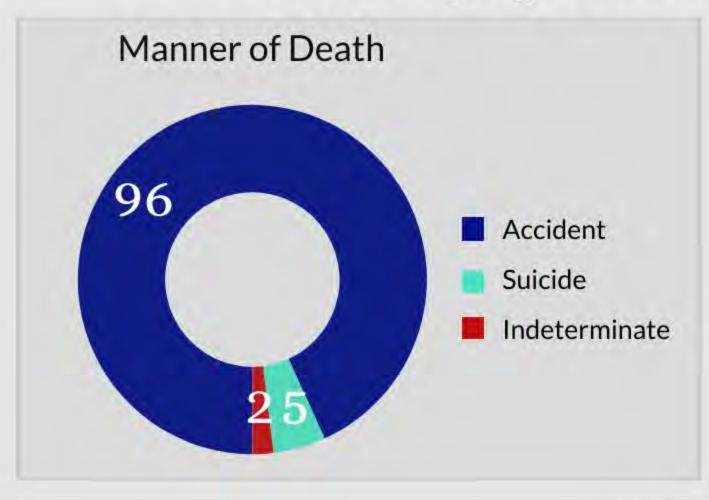


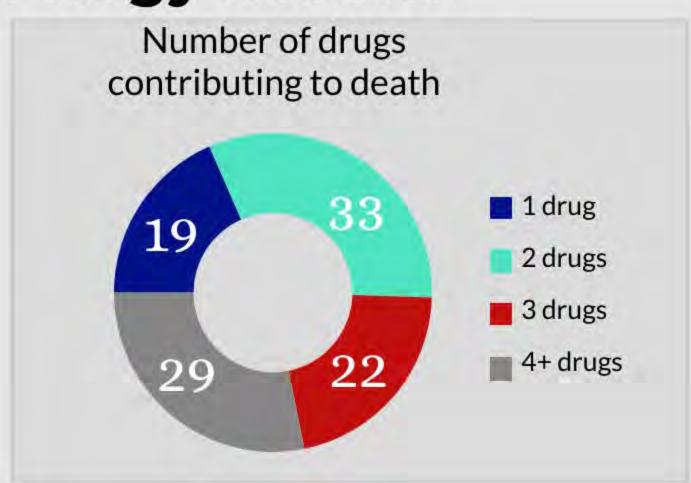






Autopsy and Toxicology Results





Highlights

<u>Drug Related Deaths 2018-2020</u>

January to June

Year	2018	2019	2020
Total drug deaths	110*	104	164
Deaths per 100,000**	11.0	10.4	16.3

11 decedents had methamphetamine and heroin in their toxicology report

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

<u>Methamphetamine and Opioids</u>

One study found there to be a 2.8 fold increase in overdose when injecting both methamphetamine and heroin versus only injecting heroin. Using both methamphetamine and heroin at the same time puts the body into a state of confusion. Researchers also found that those who inject methamphetamine and heroin together are more likely to share syringes.1

¹Al-Tayyib, A., Koester, S., Langegger, S., & Raville, L. (2017). Heroin and methamphetamine injection: an emerging drug use pattern. Substance use & misuse, 52(8), 1051-1058.

Berrien county is not included in 2018. **2018 population estimates used for 2018; 2019 population estimates used for 2019 & 2020.