

2020 ANNUAL REPORT

Deaths related to opioids and other drugs

Leelanau, Mason, & Osceola County

This report is in memory of those who lost their life or a loved one to substance use. These losses must motivate us all to prevent future deaths.

A few notes...

: Purpose:

- : This data was collected by the **Office of the Medical Examiner in the Department of Pathology at WMed**. Unless otherwise noted, data is from 2020 and 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, Children and Substance Use History.

: Sources:

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

Please email Chloe Bielby for additional information or to set up a time to discuss your county's report: chloe.bielby@med.wmich.edu

Deaths Related to Opioids and Other Drugs

Leelanau, Mason, Osceola

All drug related deaths

Sex	Race	Age	Substances contributing to death	Injury Zip Code
F	W	27	Pt. II: Methamphetamine*	49655 (O)
F	W	30	Pt. I: Fentanyl, cocaine, diphenhydramine, hydroxyzine, cyclobenzaprine, diazepam	49660 (M)
M	W	34	Pt. I: Fentanyl, para-fluorofentanyl, hydrocodone	49431 (M)
F	W	35	Pt. I: Methamphetamine	Unknown (O)
F	W	42	Pt. I: Fentanyl, heroin, xylazine, methamphetamine	49431 (M)
F	W	49	Pt. I: Hydromorphone, acetaminophen, tramadol	49664 (L)
M	W	49	Pt. I: Methamphetamine, fentanyl, tramadol	49660 (M)
F	W	56	Pt. I: Fentanyl, tramadol	49431 (M)
F	W	85	Pt. I: Morphine	49654 (L)

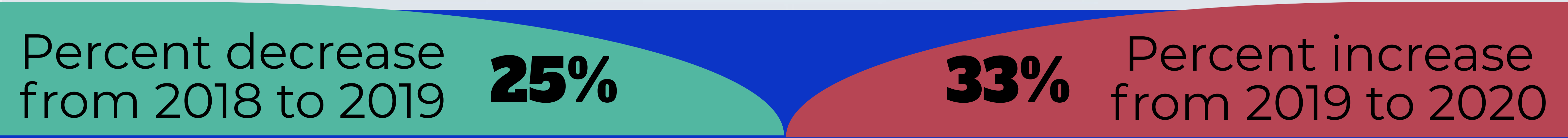
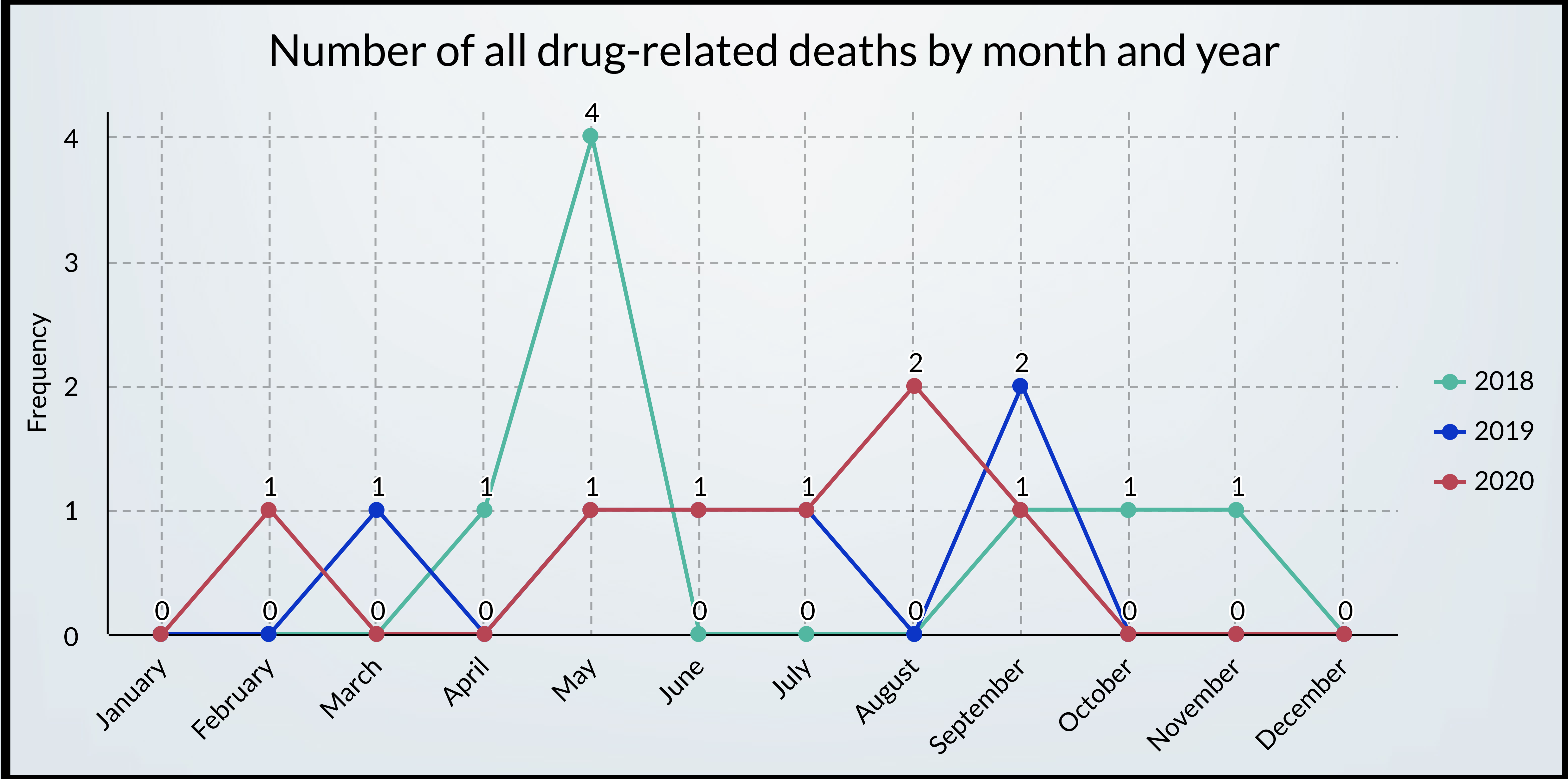
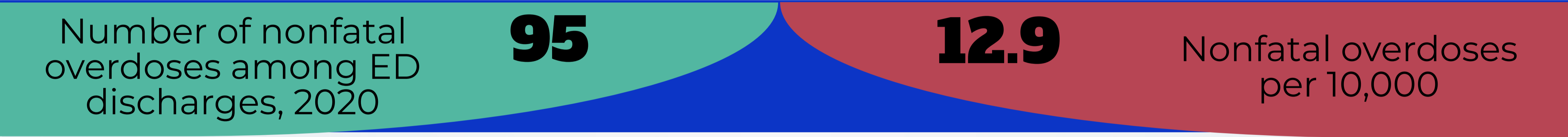
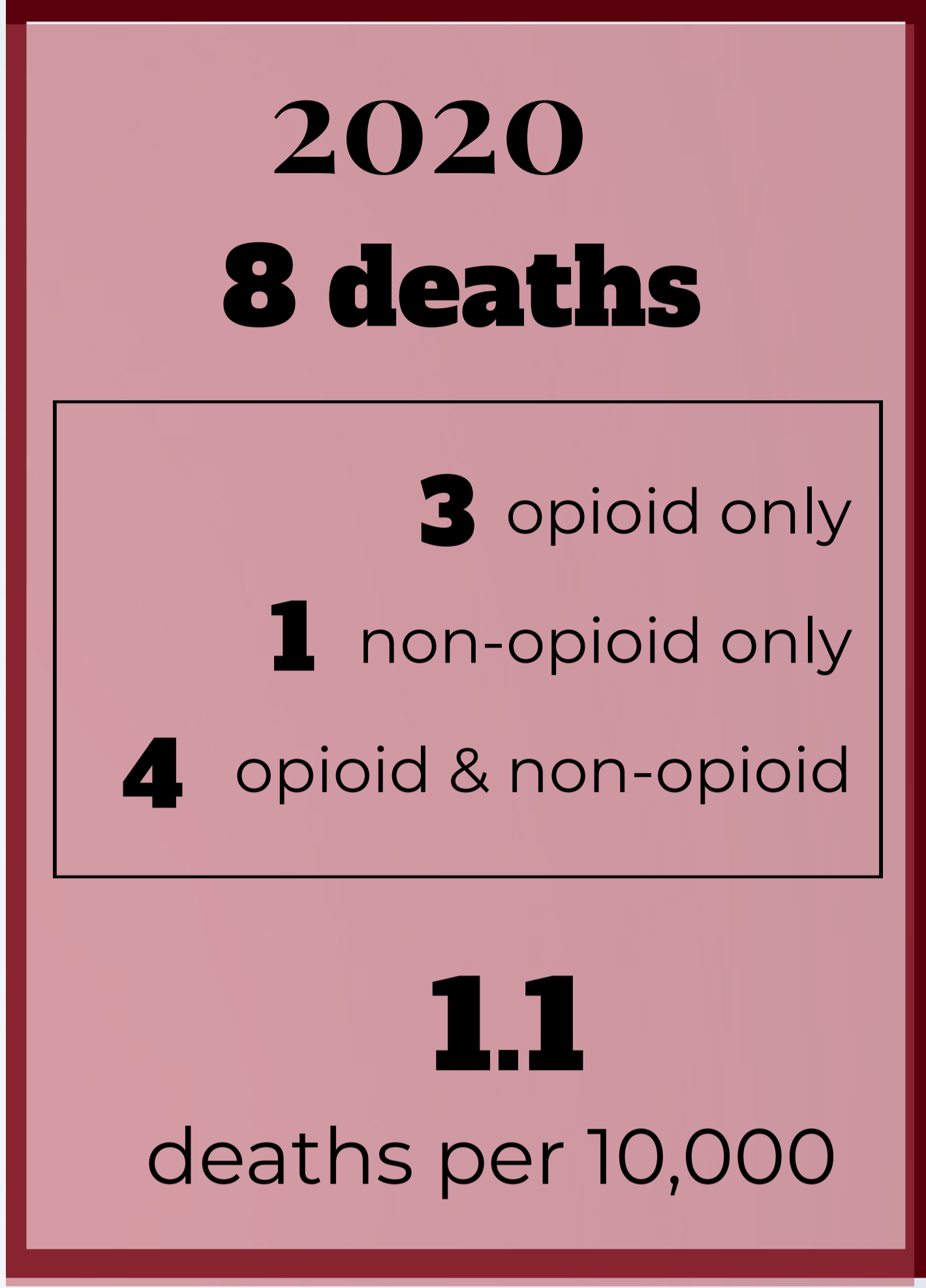
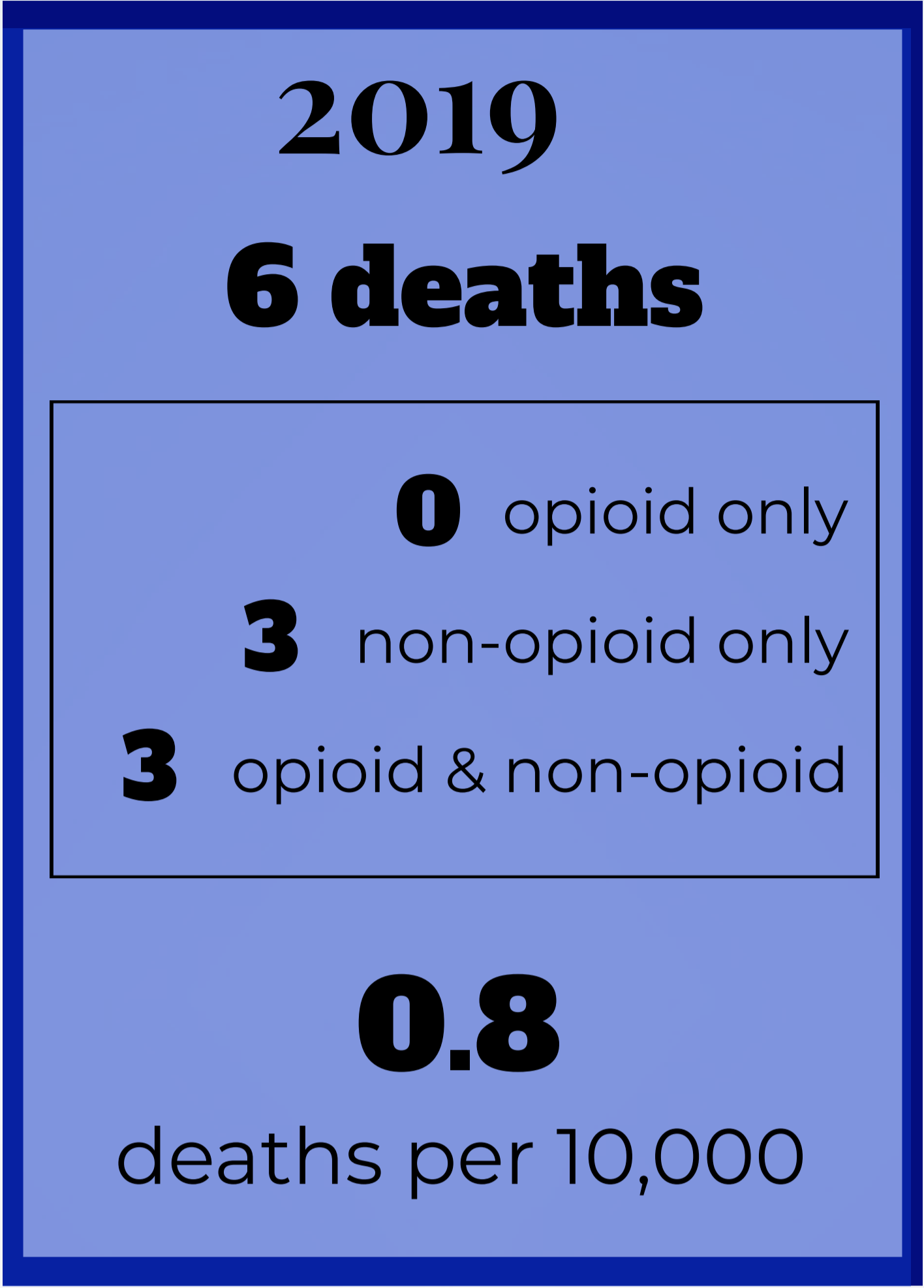
* Case is not included in the following report

L = Leelanau
M = Mason
O=Osceola

Deaths Related to Opioids and Other Drugs

Leelanau, Mason, Osceola

Total deaths due to drugs: 2018, 2019, 2020

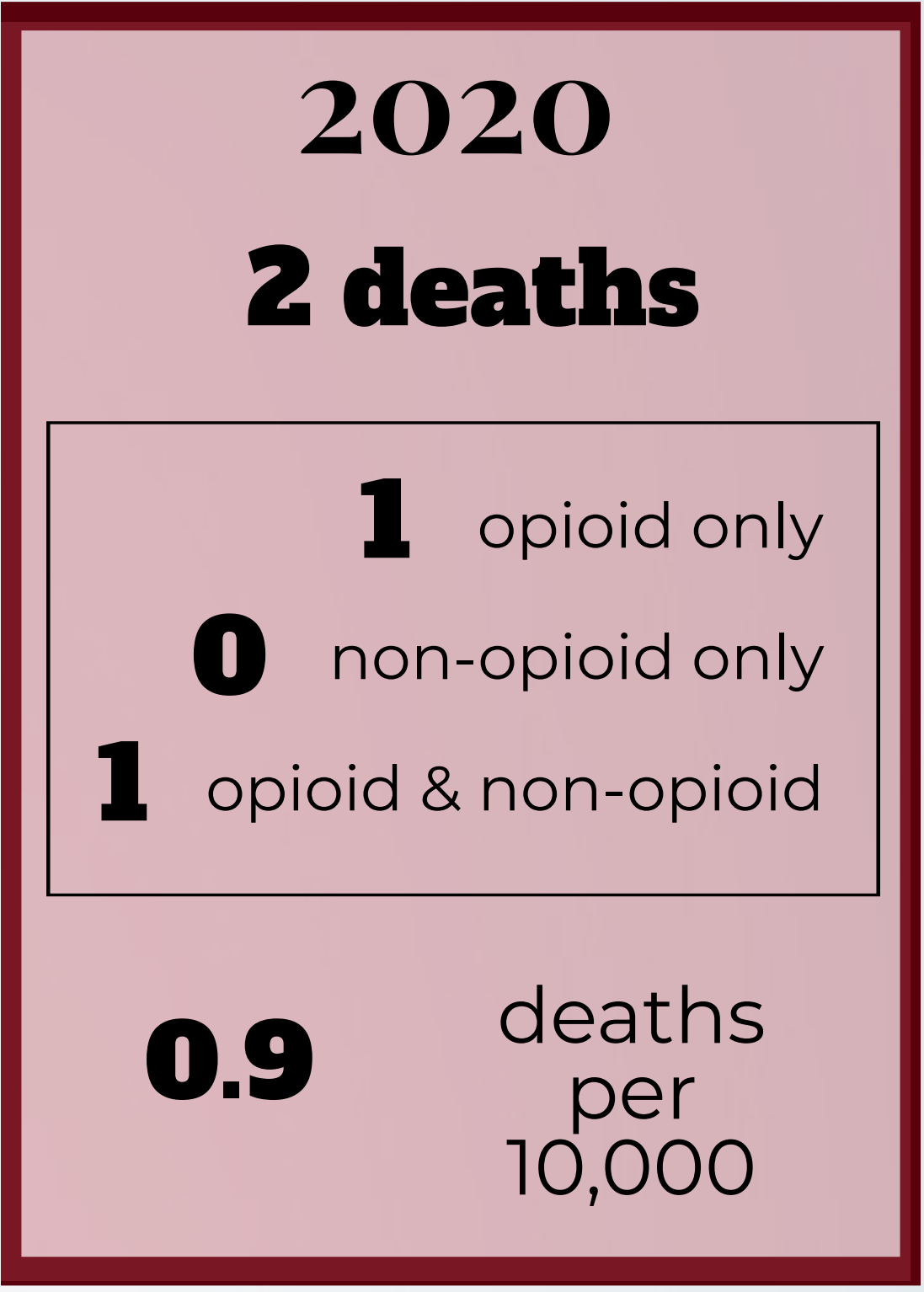
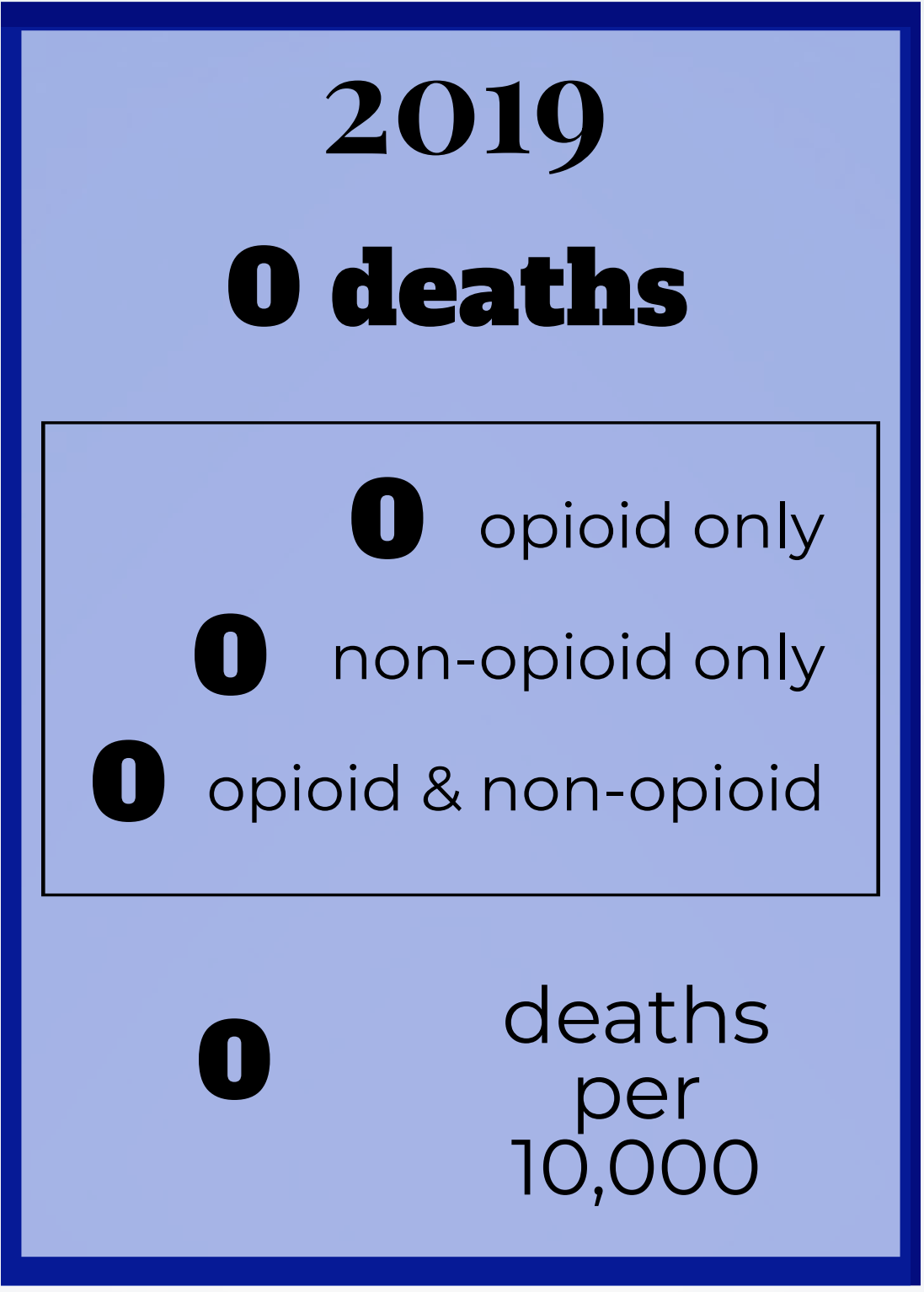
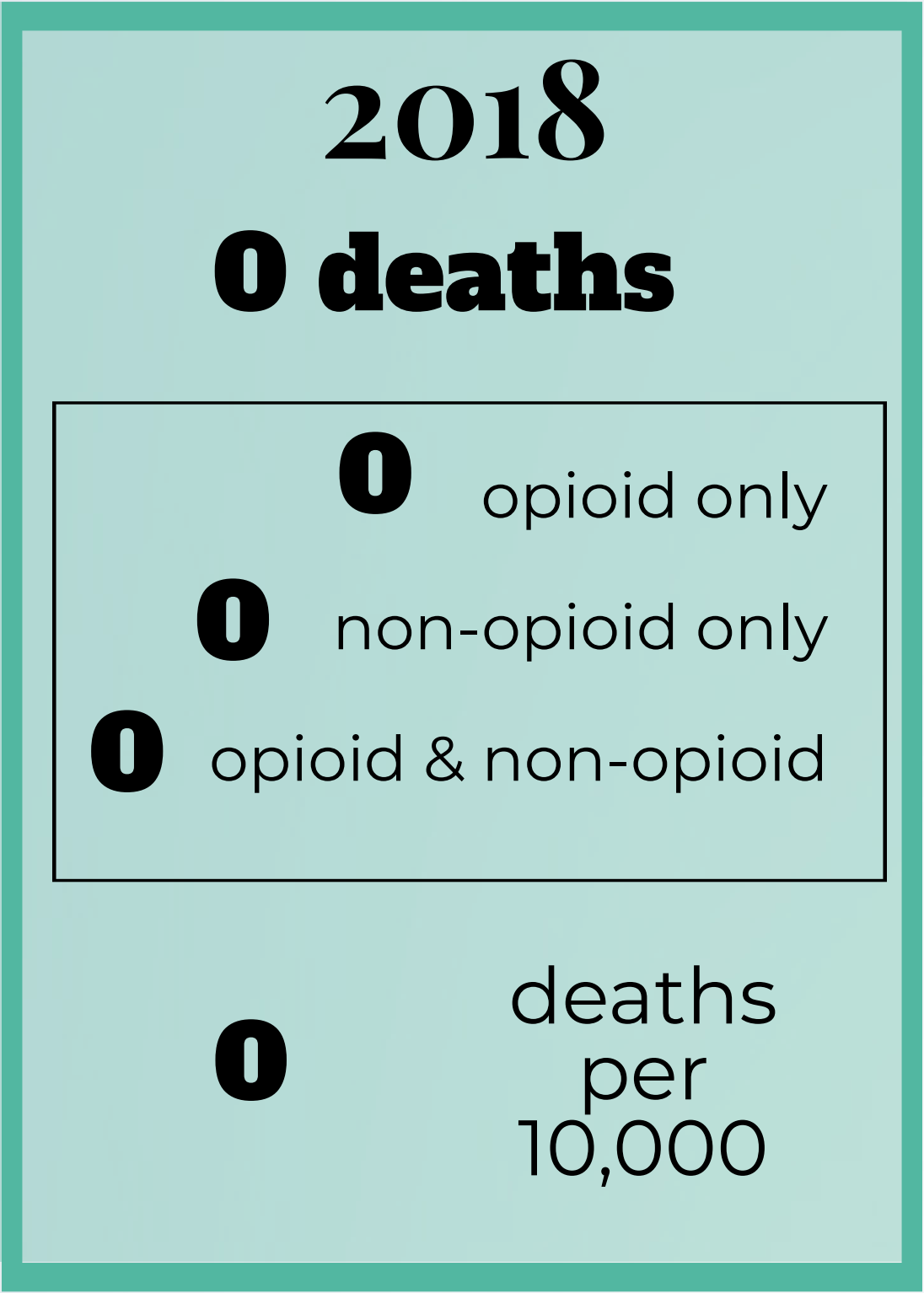


Deaths Related to Opioids and Other Drugs

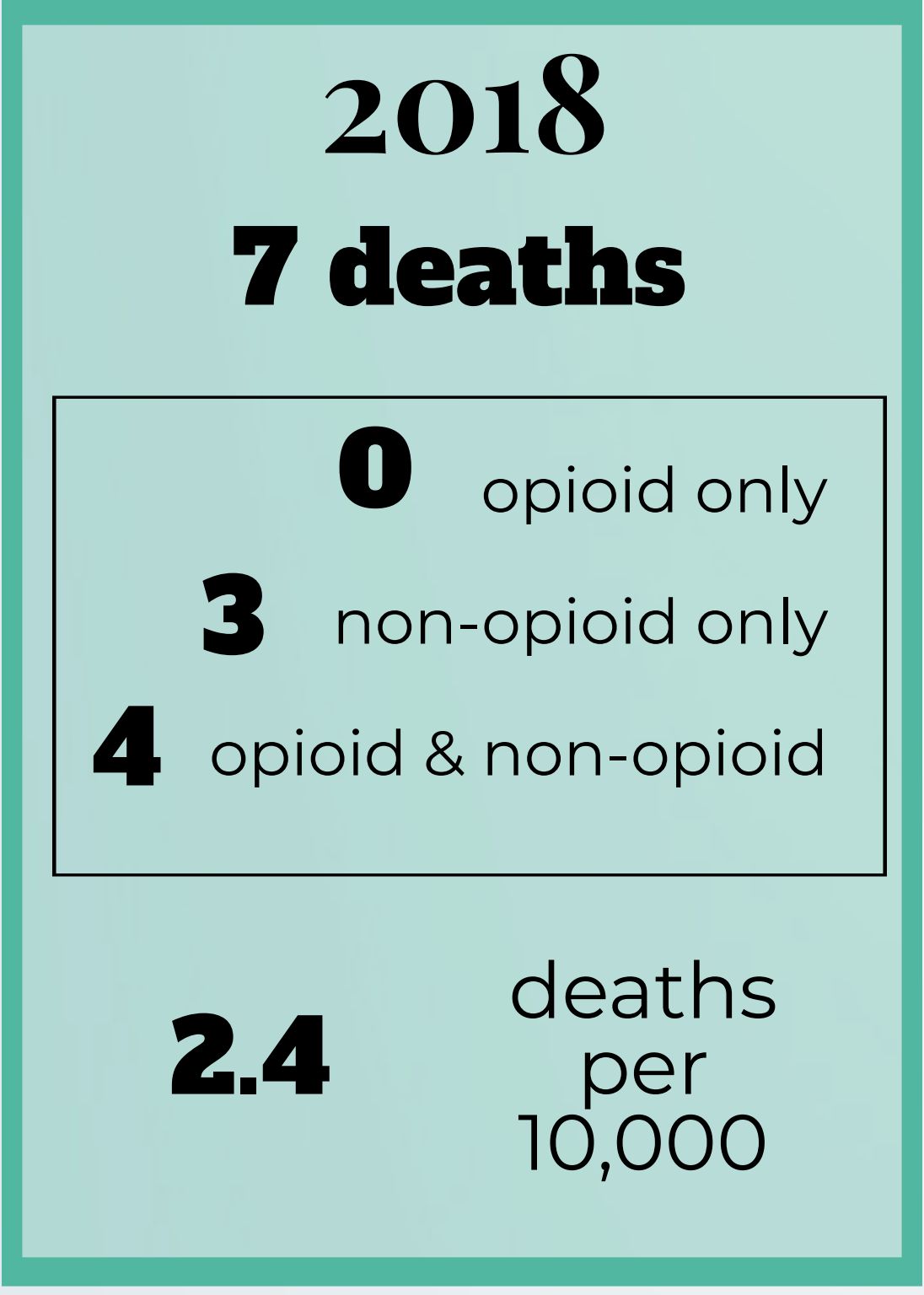
Leelanau, Mason, Osceola

Breakdown by County: 2018, 2019, 2020

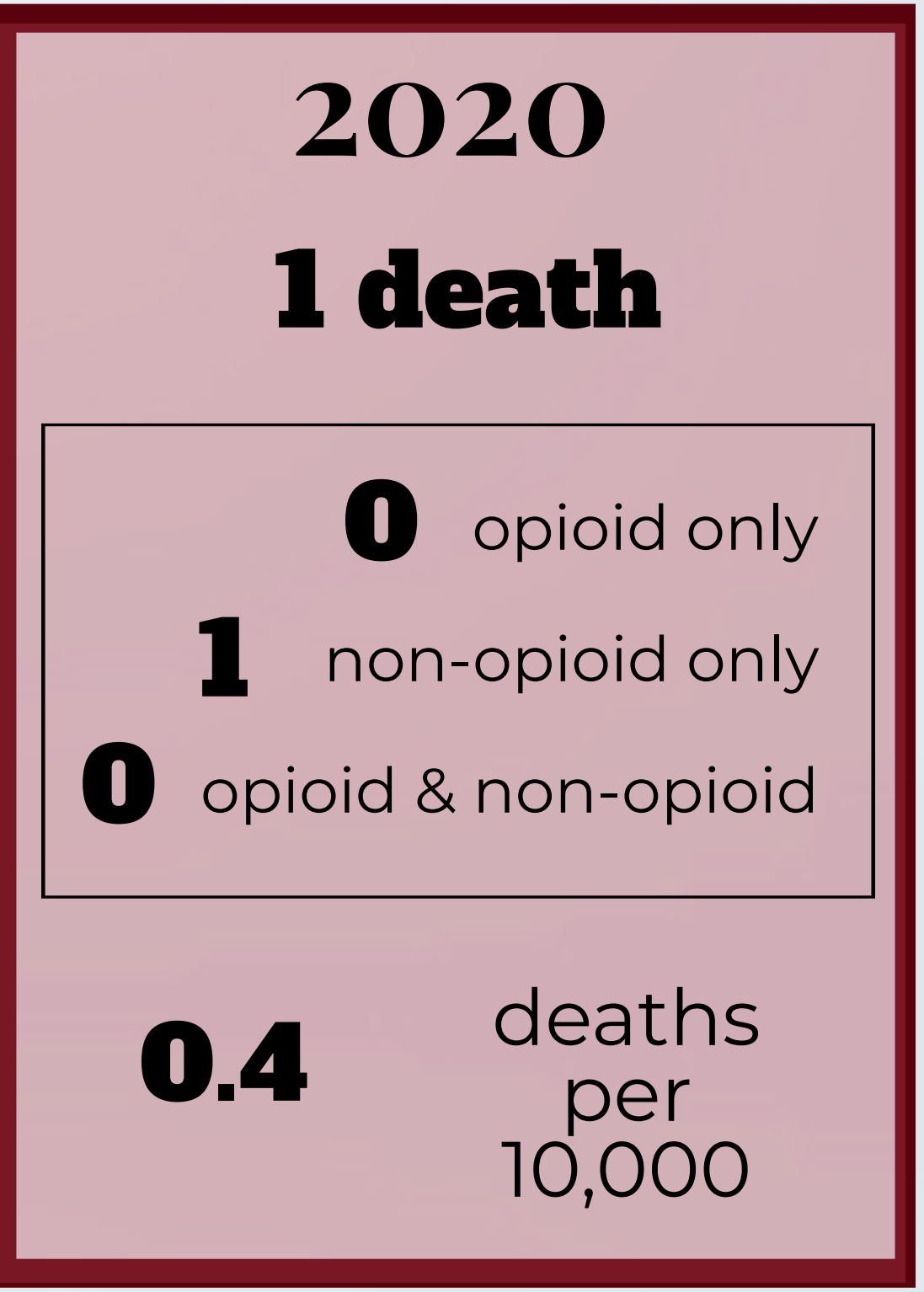
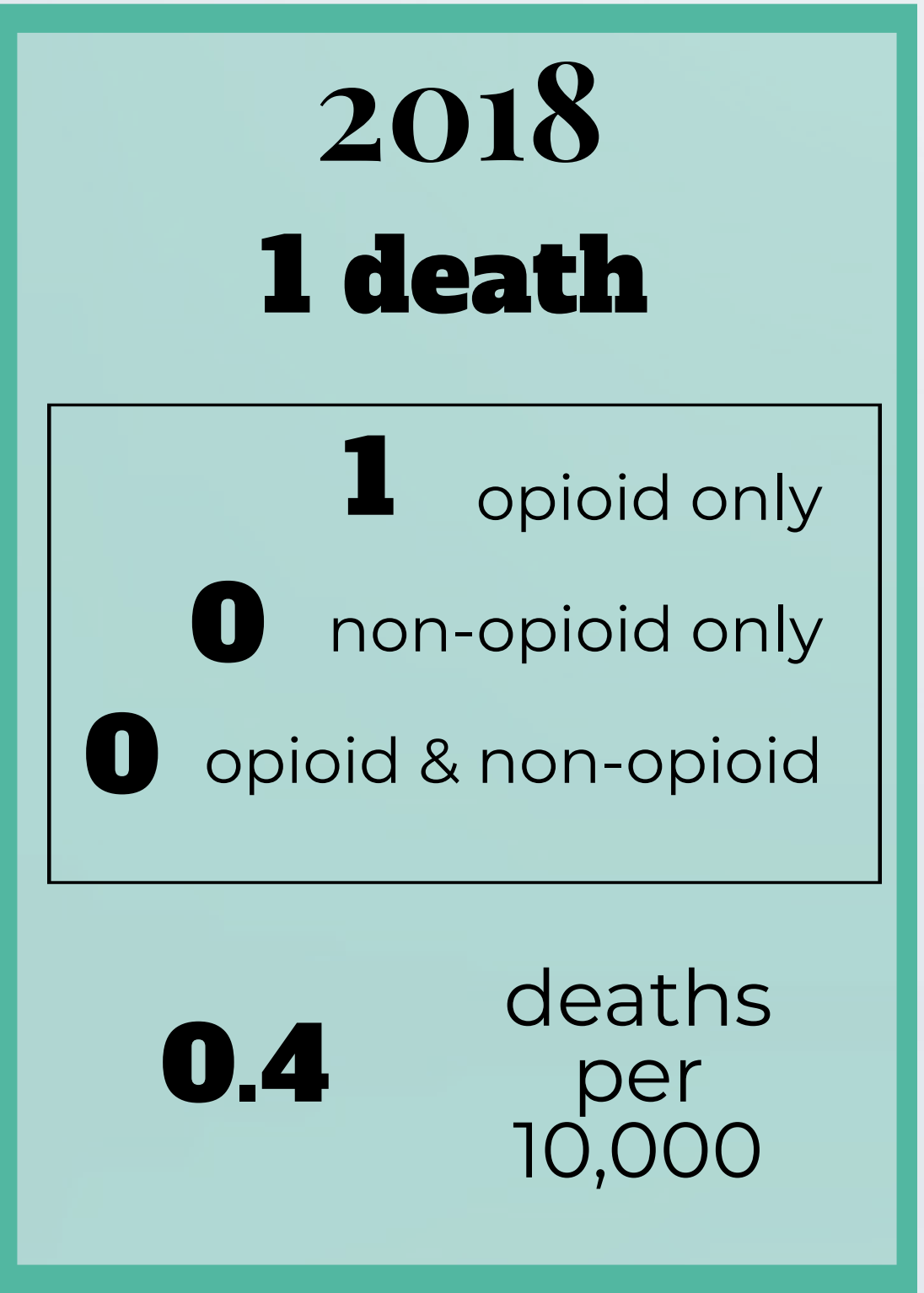
Leelanau



Mason



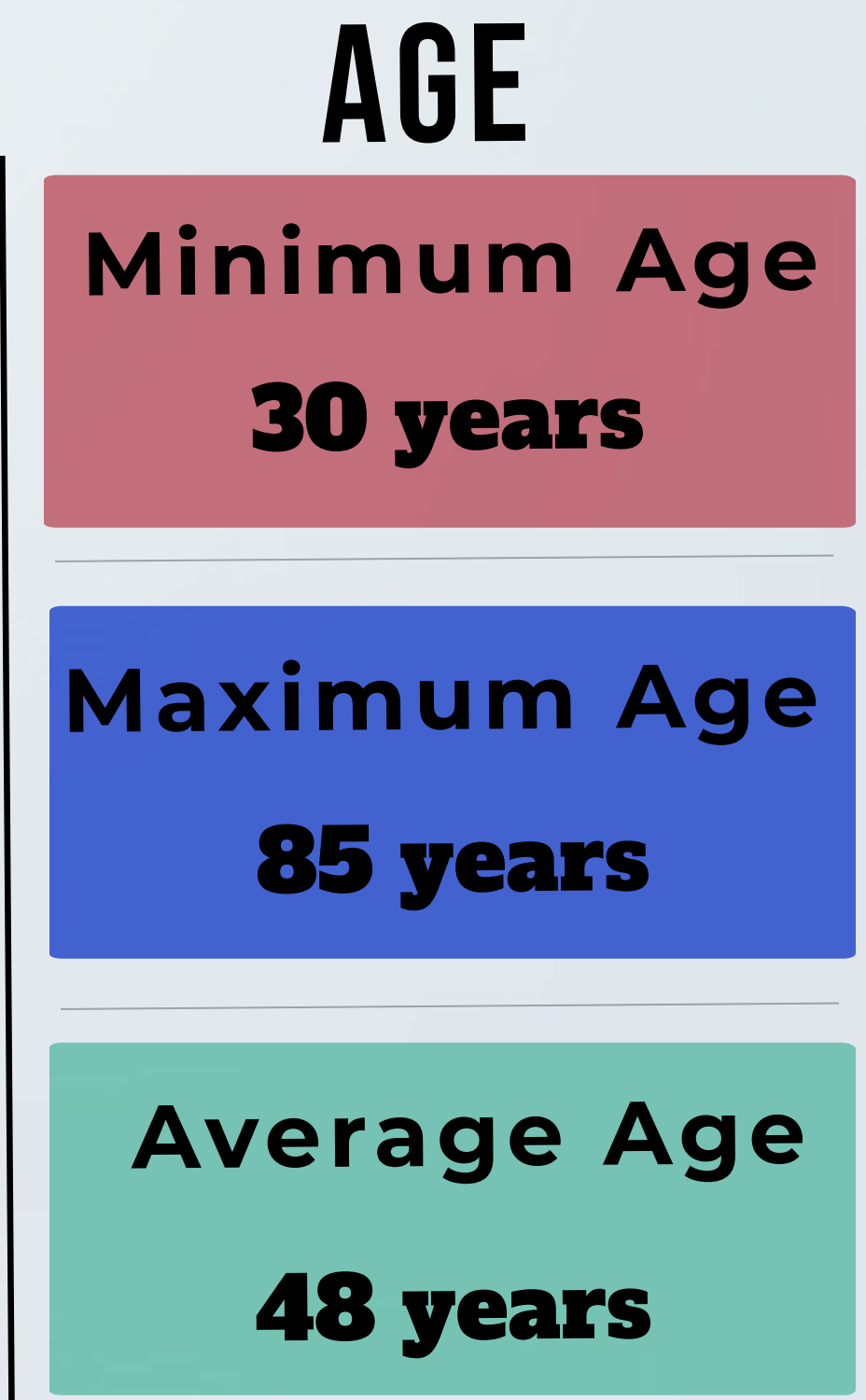
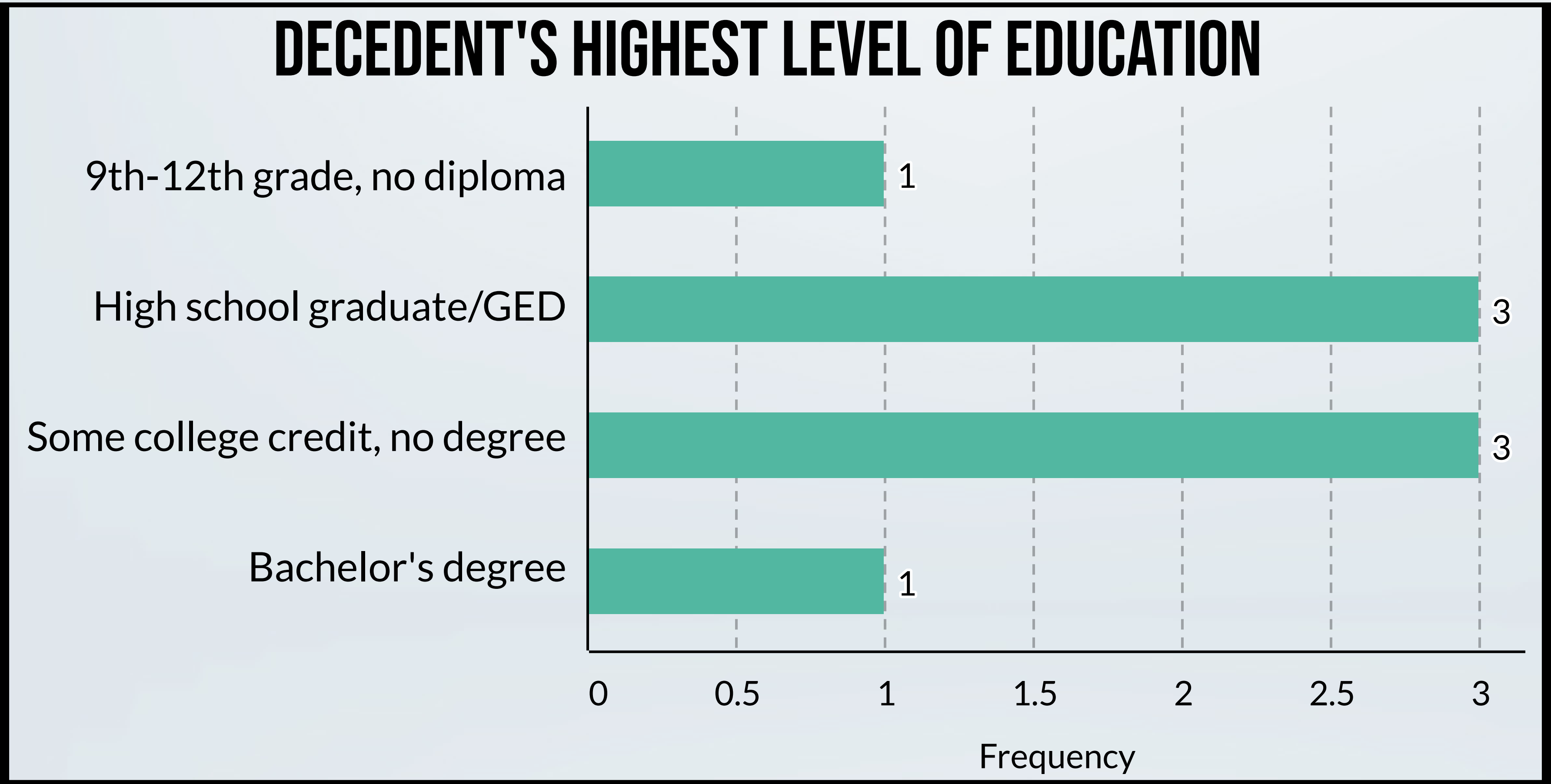
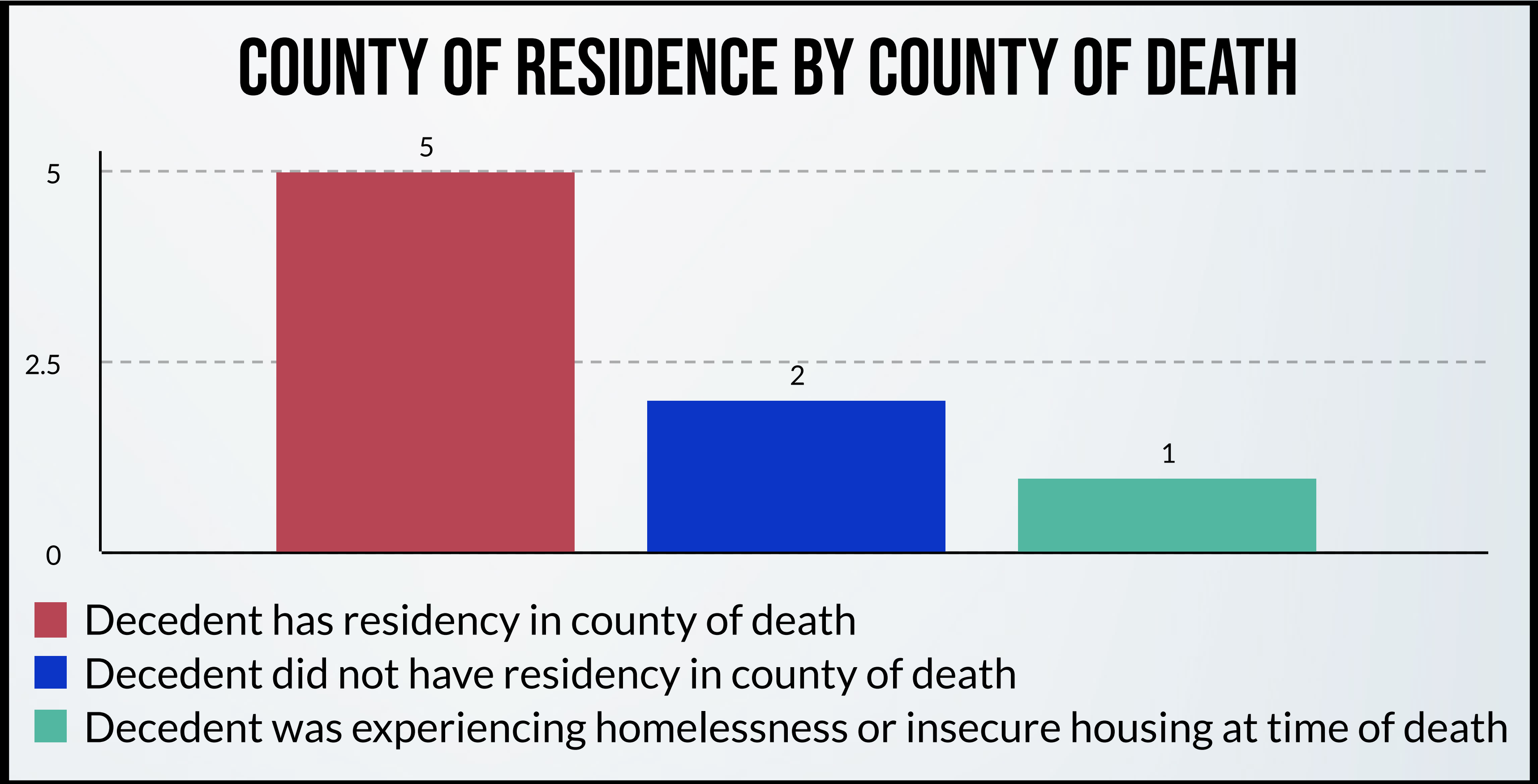
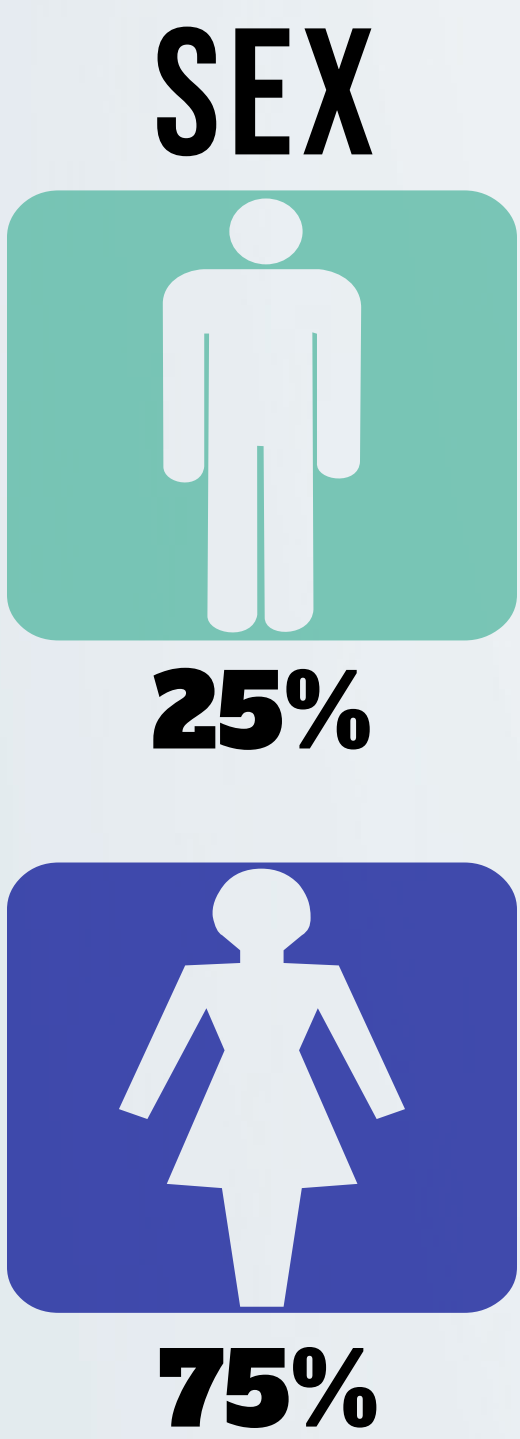
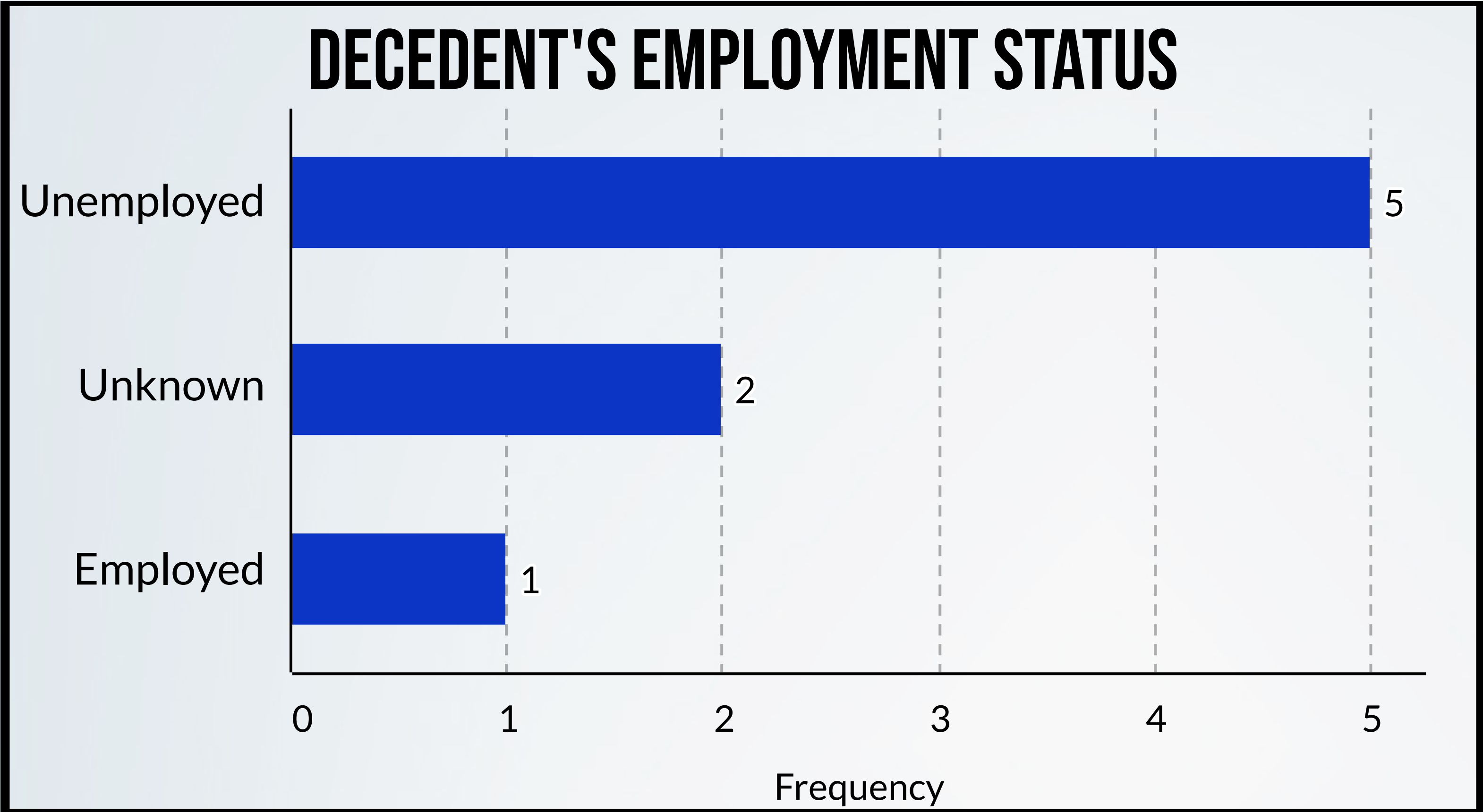
Osceola



Deaths Related to Opioids and Other Drugs

Leelanau, Mason, Osceola

Demographics



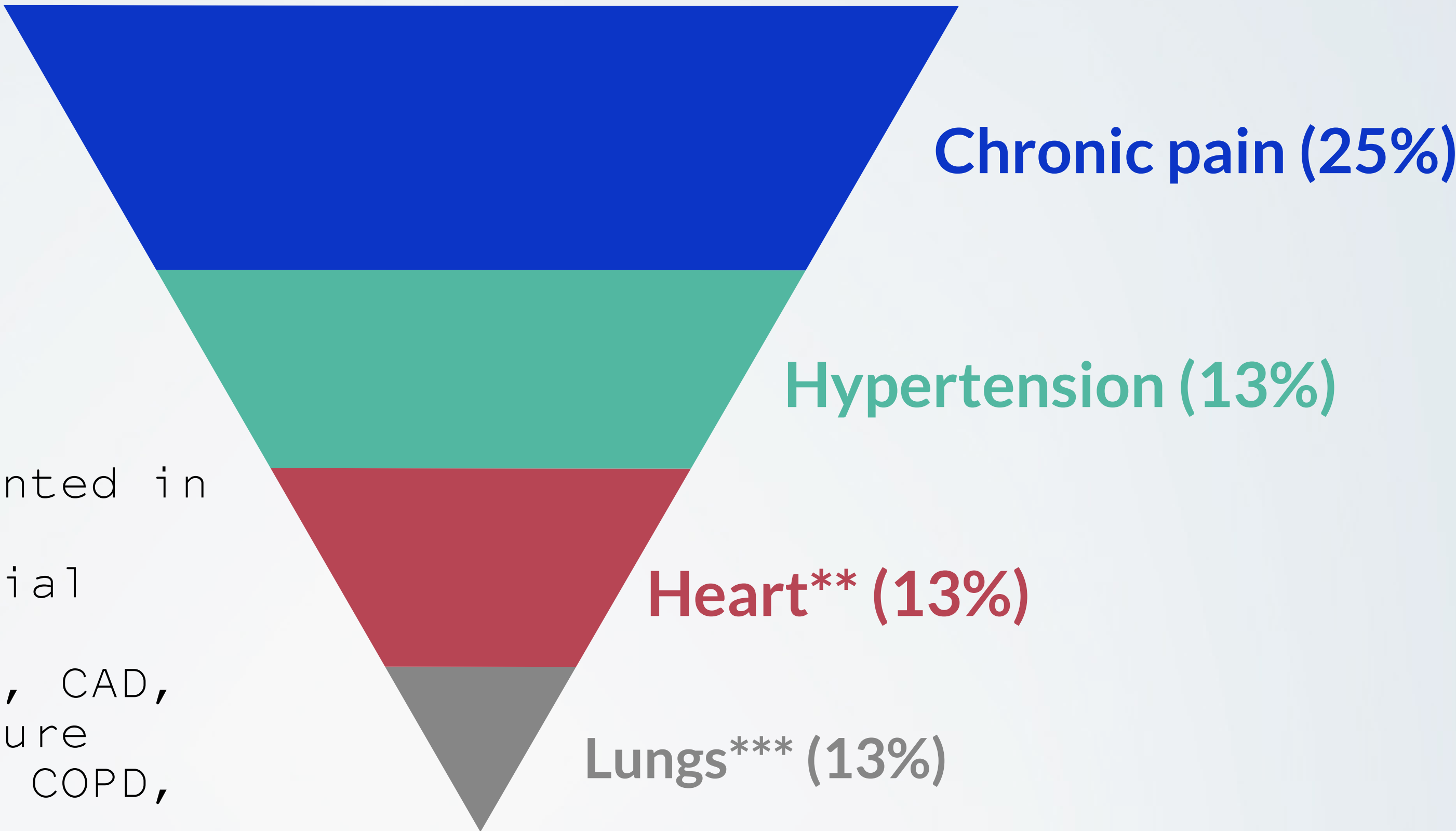
Deaths Related to Opioids and Other Drugs

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Health Factors

MOST
PREVALENT
AILMENTS*

*Decedents may be represented in more than one category. Only illnesses with official diagnosis are included.
**Heart includes MI, CABH, CAD, AFib, ACD, and heart failure
***Lungs includes asthma, COPD, and emphysema



No decedents were known
to be Hepatitis C positive

Decedent
used
tobacco

63%+



Decedent
drank
alcohol

63%+

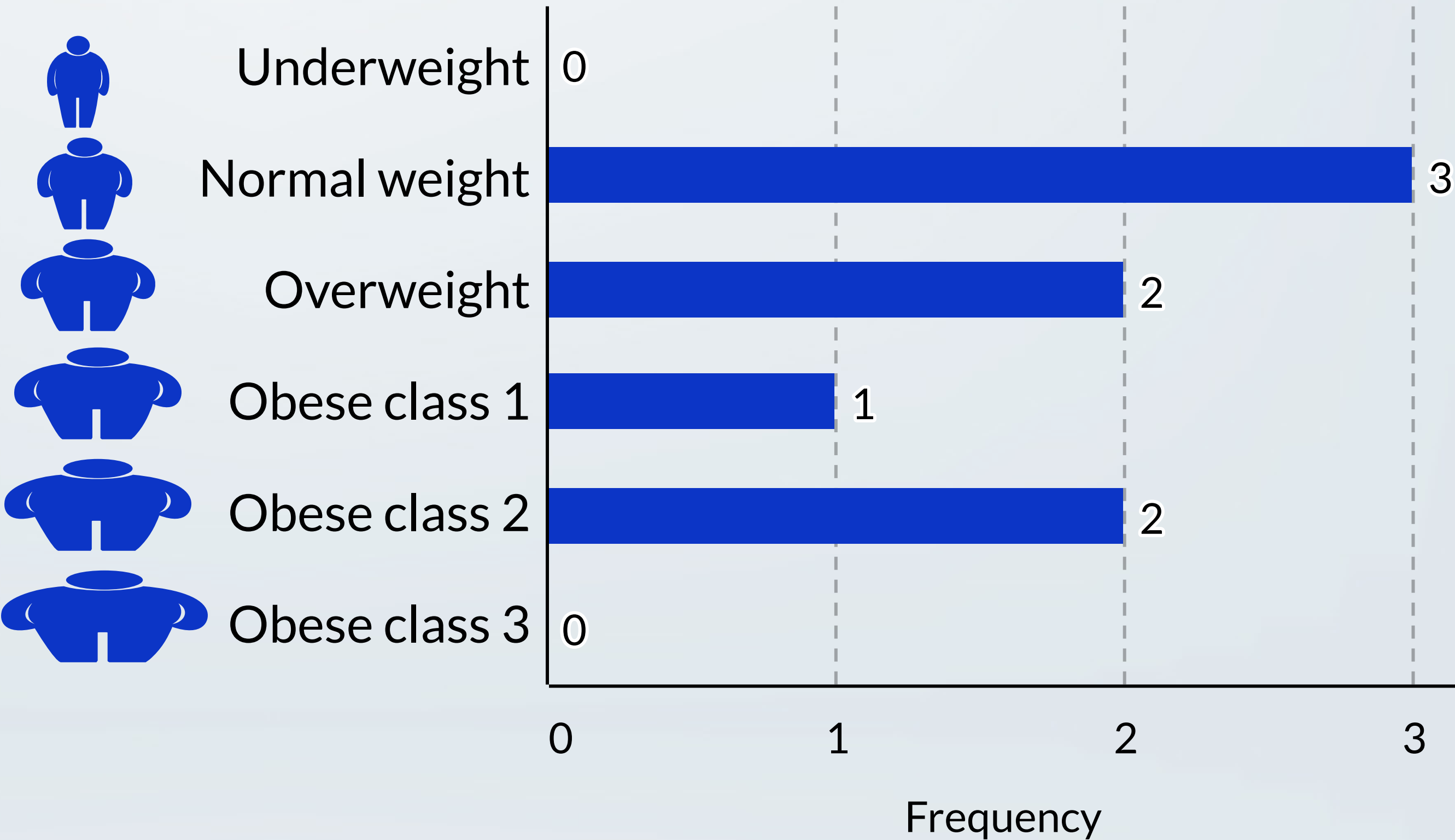


Decedent
had
a PCP

50%



BODY MASS INDEX (BMI)



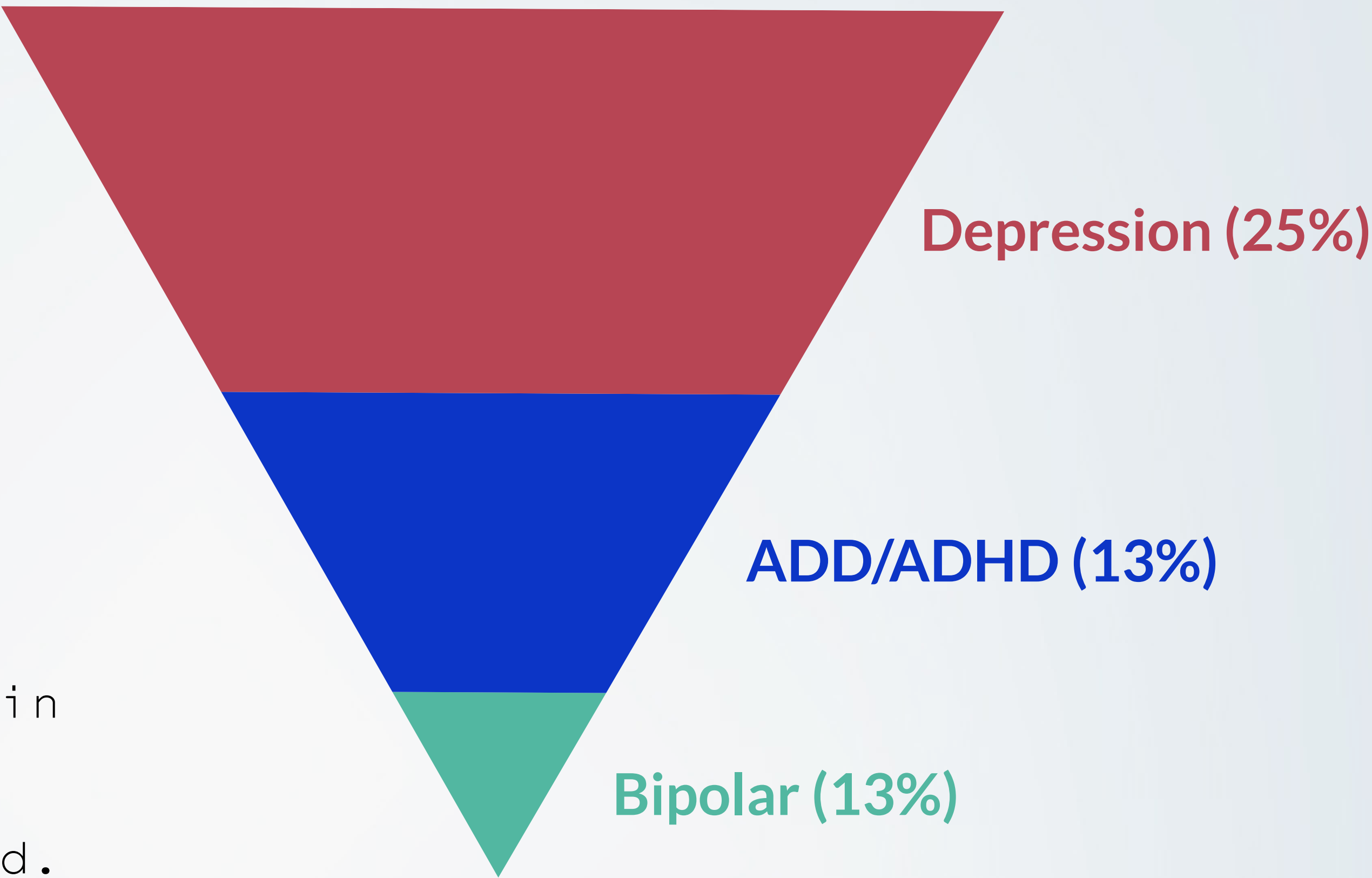
Deaths Related to Opioids and Other Drugs

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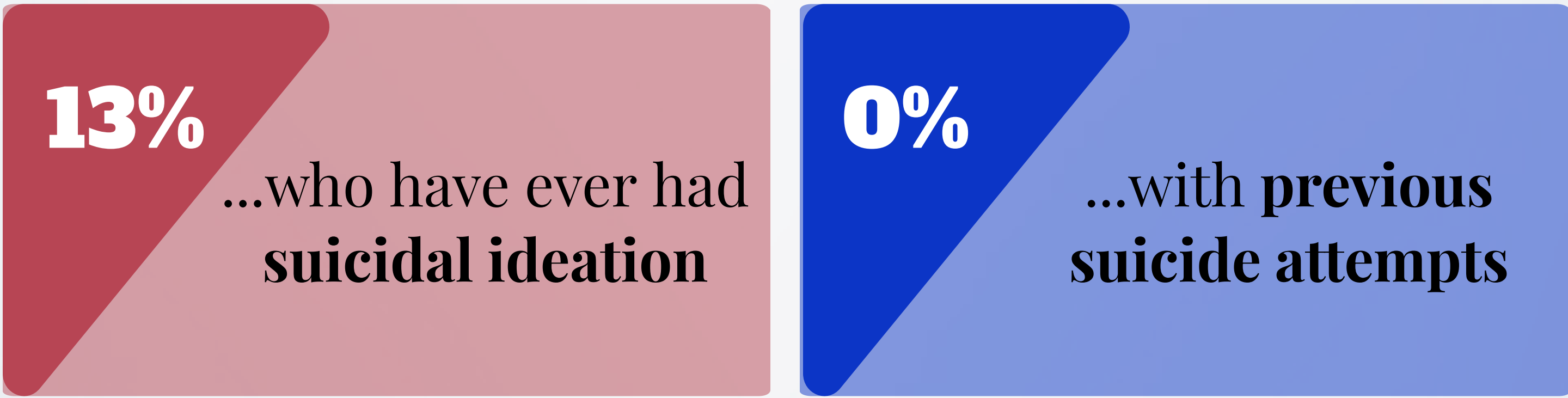
Mental Health Factors

MOST
PREVALENT
MENTAL ILLNESSES*

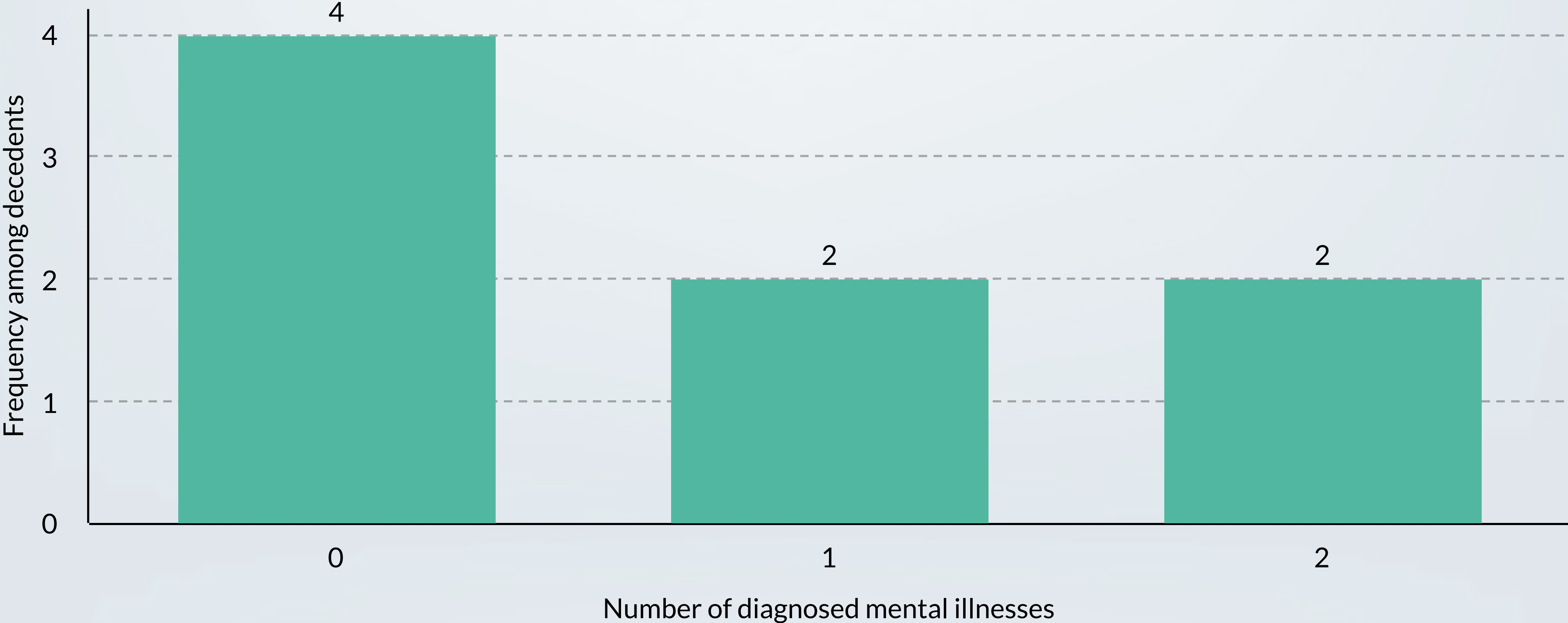
*Decedents may be represented in more than one category. Only mental illnesses with official diagnosis are included.



PERCENTAGE OF DECEDENTS...



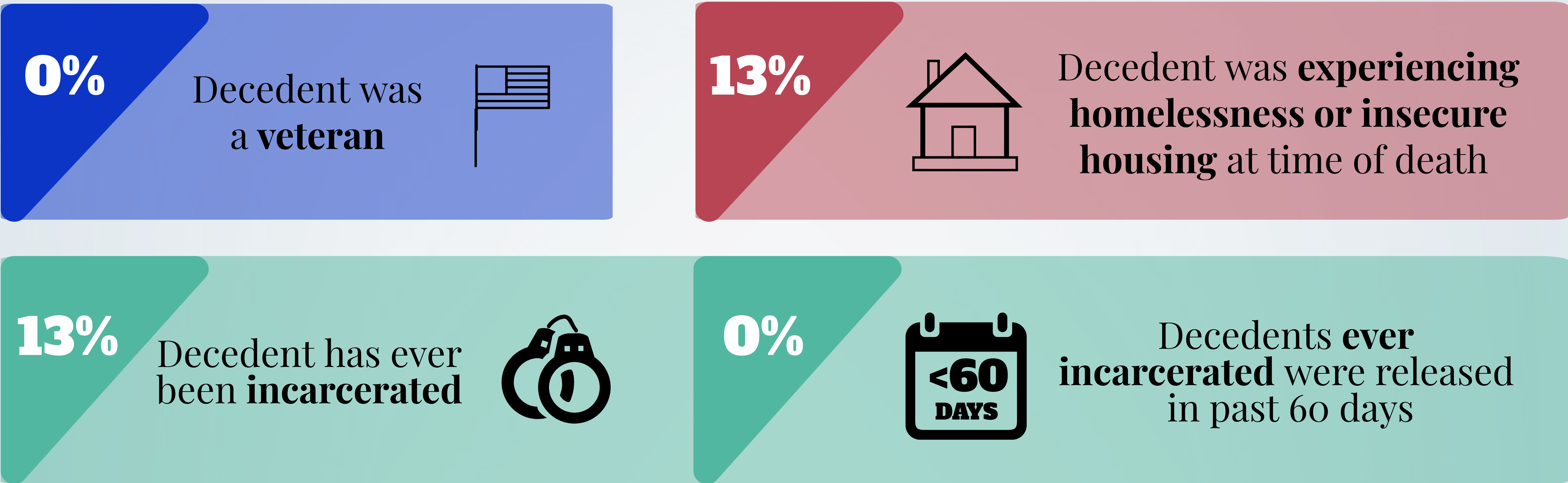
NUMBER DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS



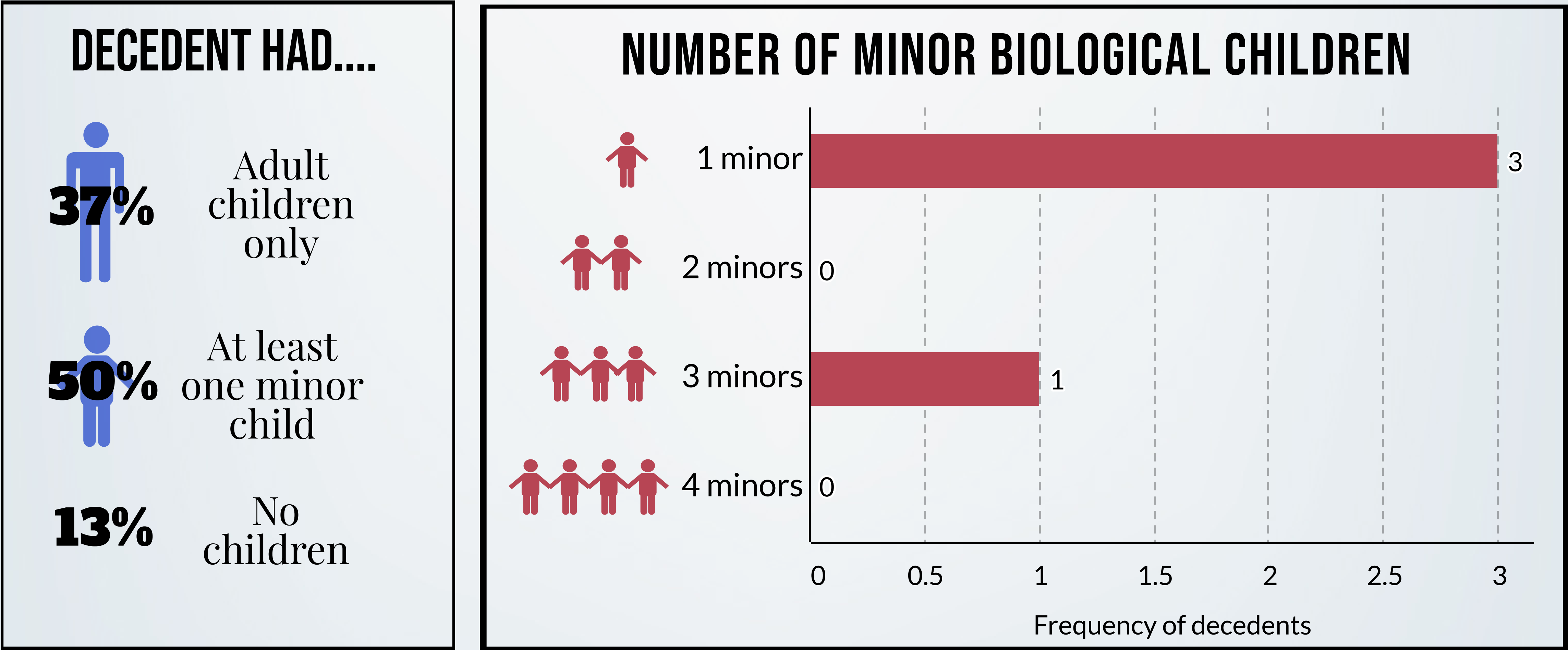
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Social Factors



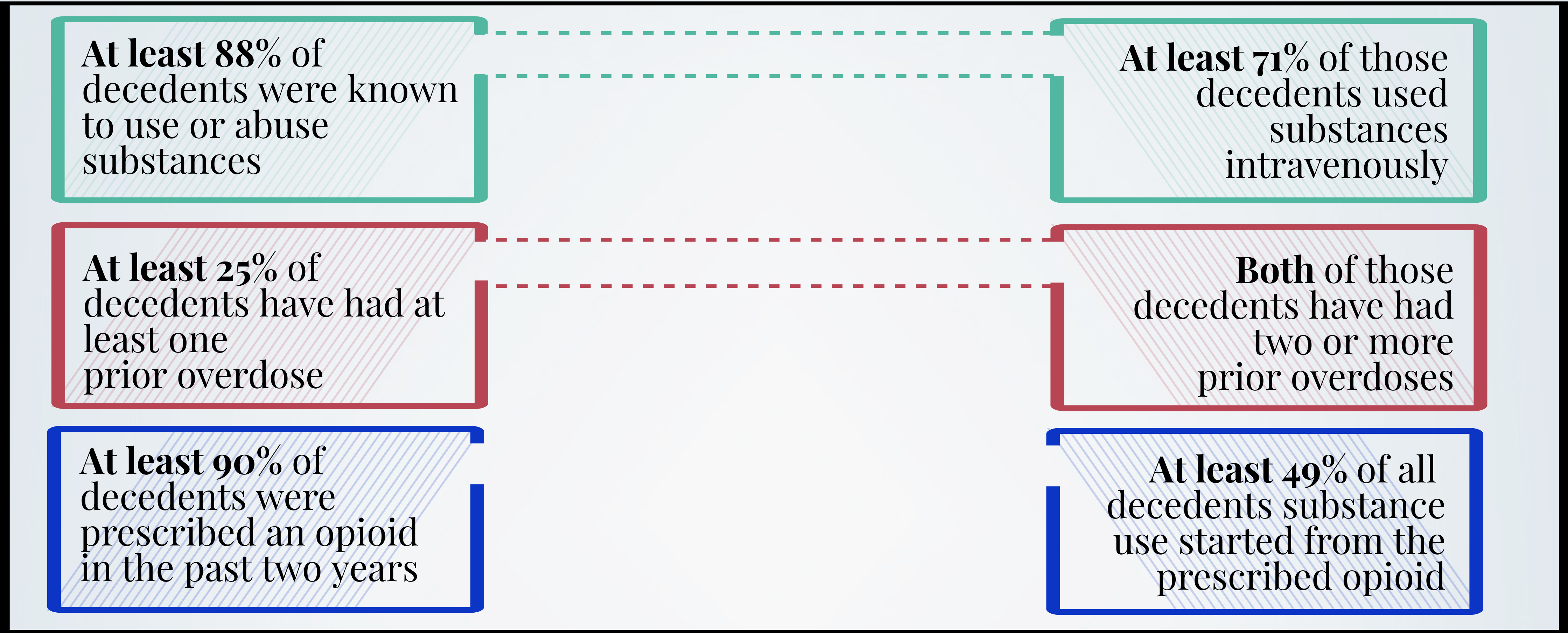
Children



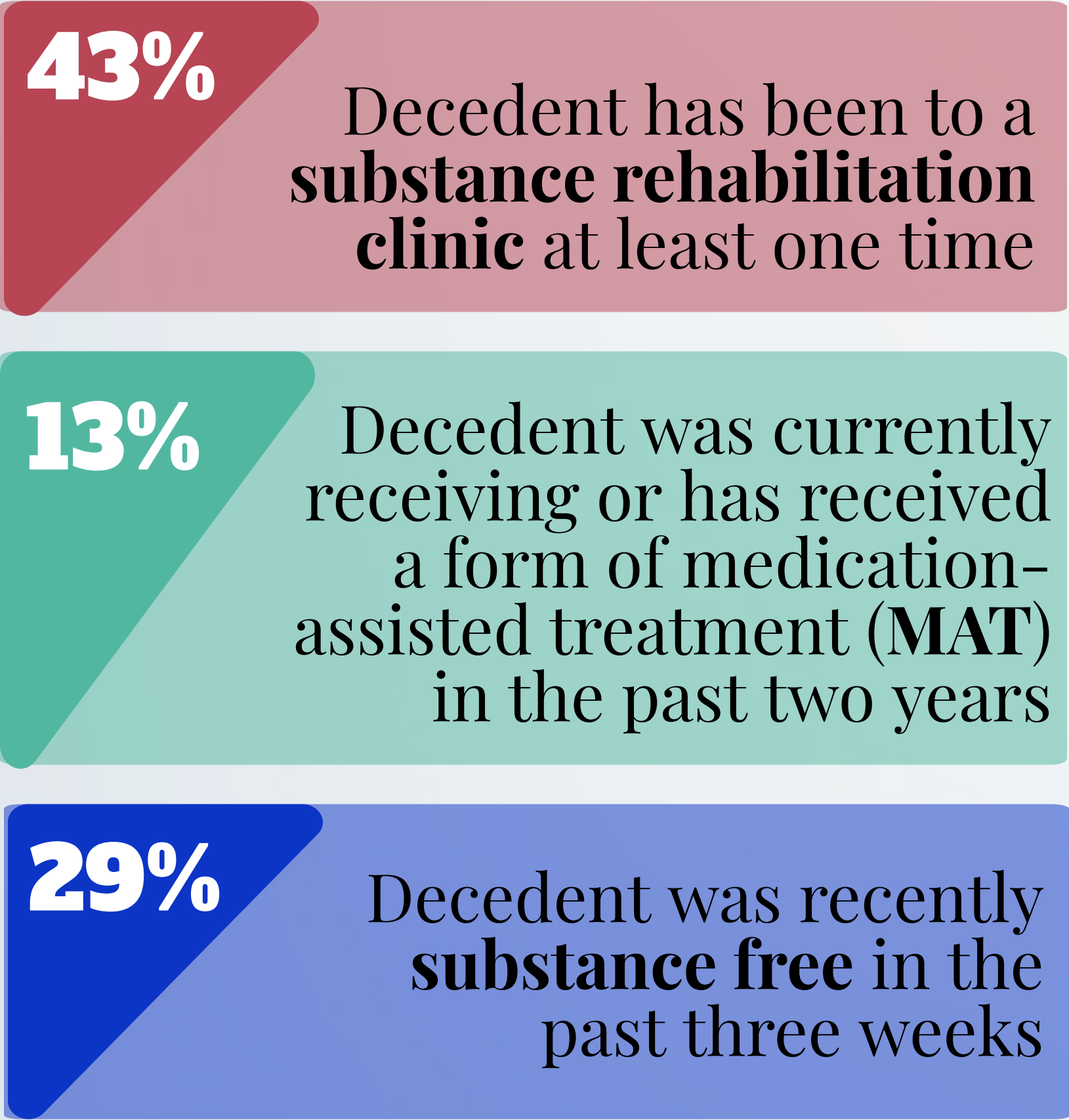
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Substance Use History



RECOVERY HISTORY (N=7)*



SUSPECTED REASONS FOR RELAPSE**

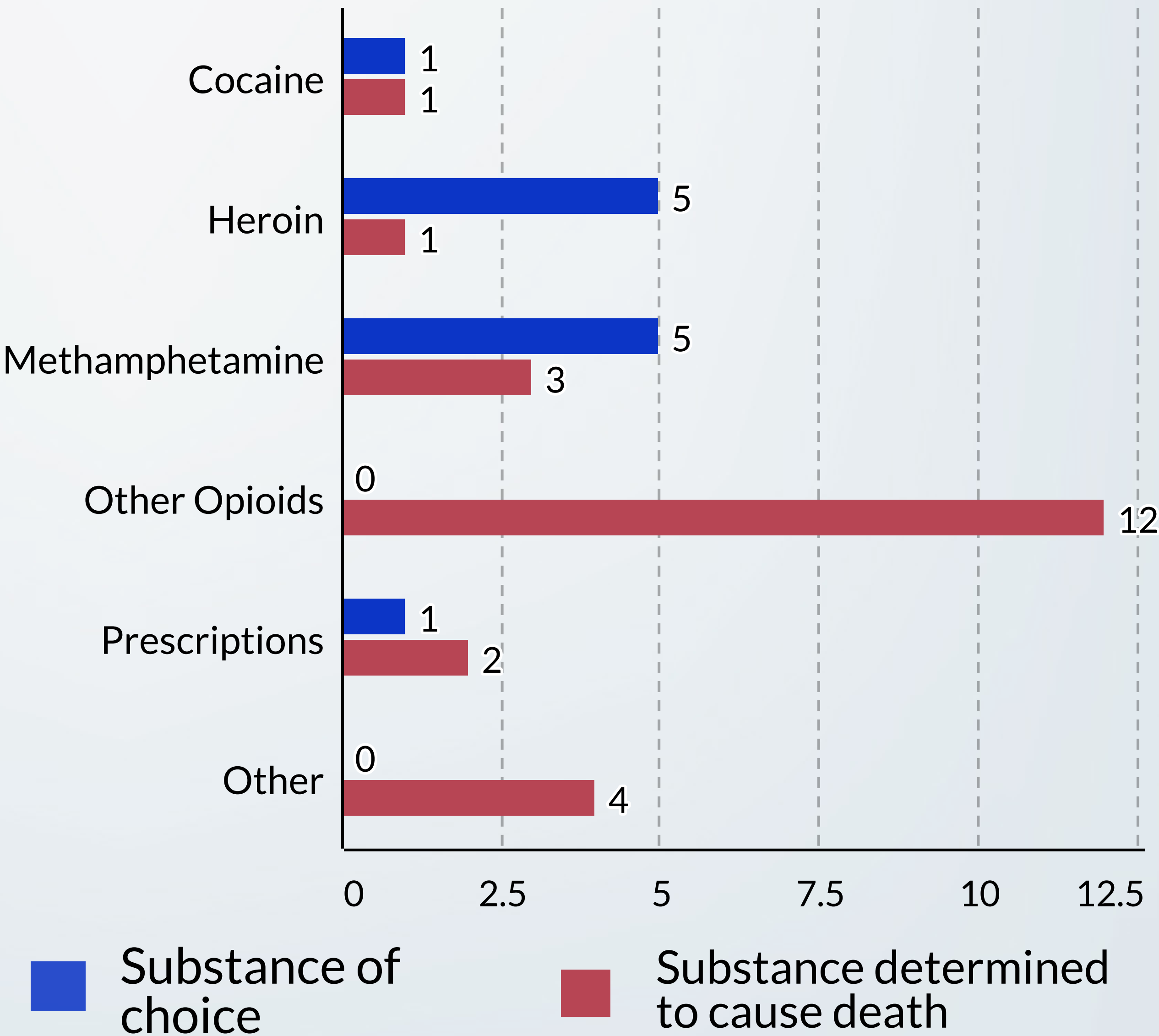


*ONLY decedents known to use substances included.

**These factors were mentioned by those close to decedent for why they may have begun to use substances again after a few months to years of living substance free.

***Life stress includes job loss.

DECEDENT'S SUBSTANCE OF CHOICE VS. WHAT WAS DETERMINED TO CAUSE DEATH



*Decedent may have had more than one substance of choice and in their toxicology.

NOTE: 1 decedent was not known to use substances

Prescriptions do not include opioids.

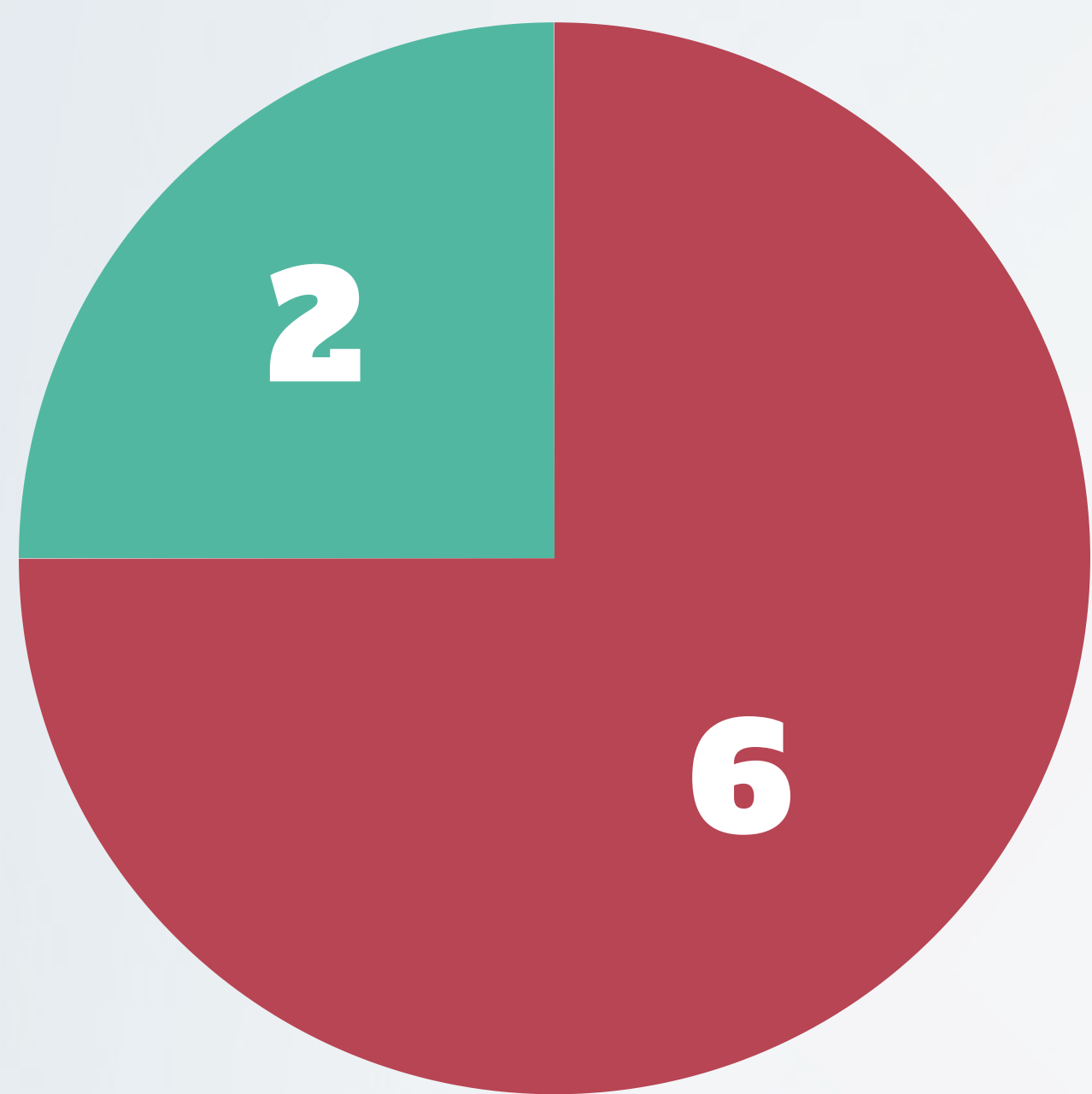
Other includes acetaminophen, diphenhydramine, hydroxyzine, and xylazine.

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Naloxone Administration

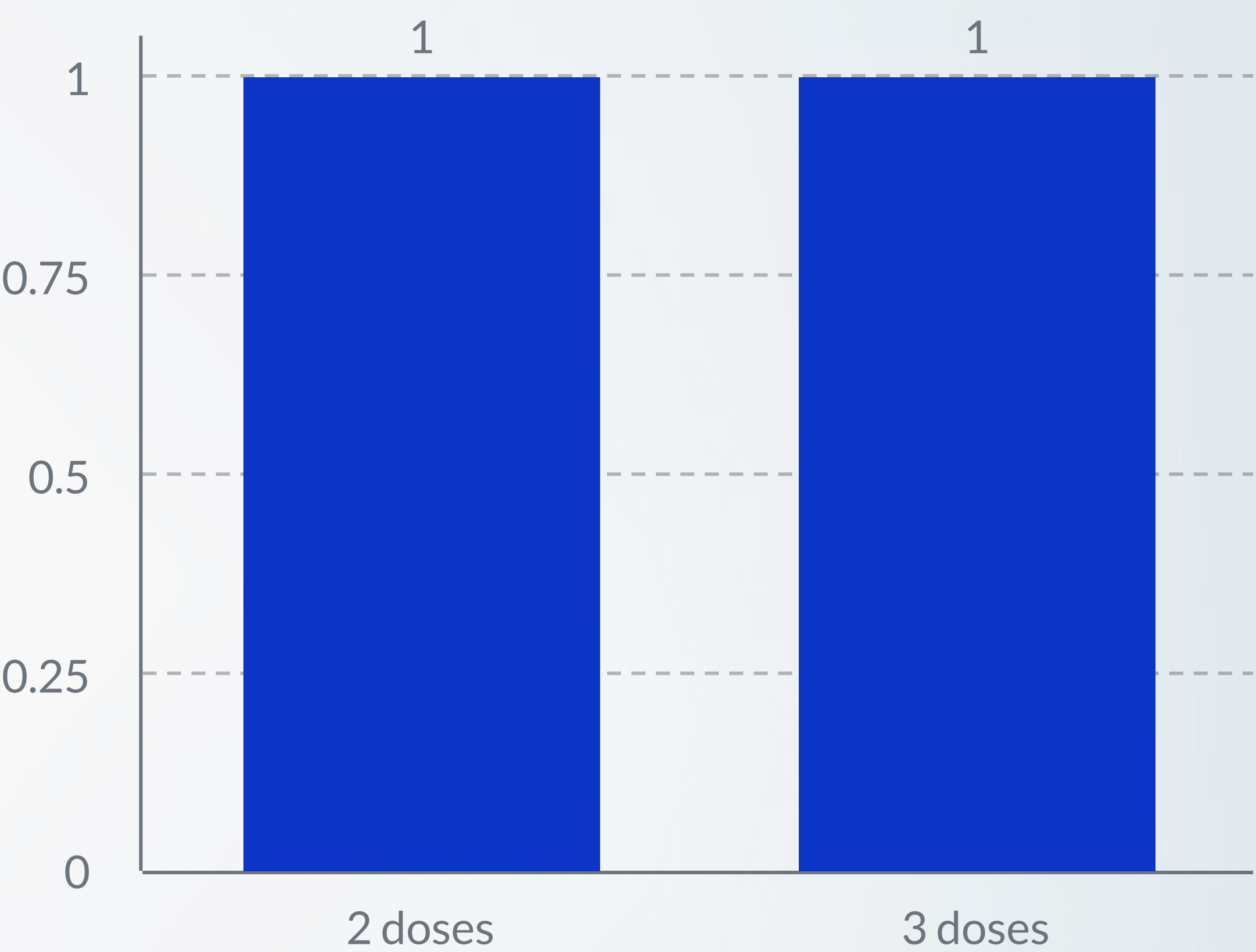
NALOXONE ADMINISTRATION STATUS



Naloxone administered

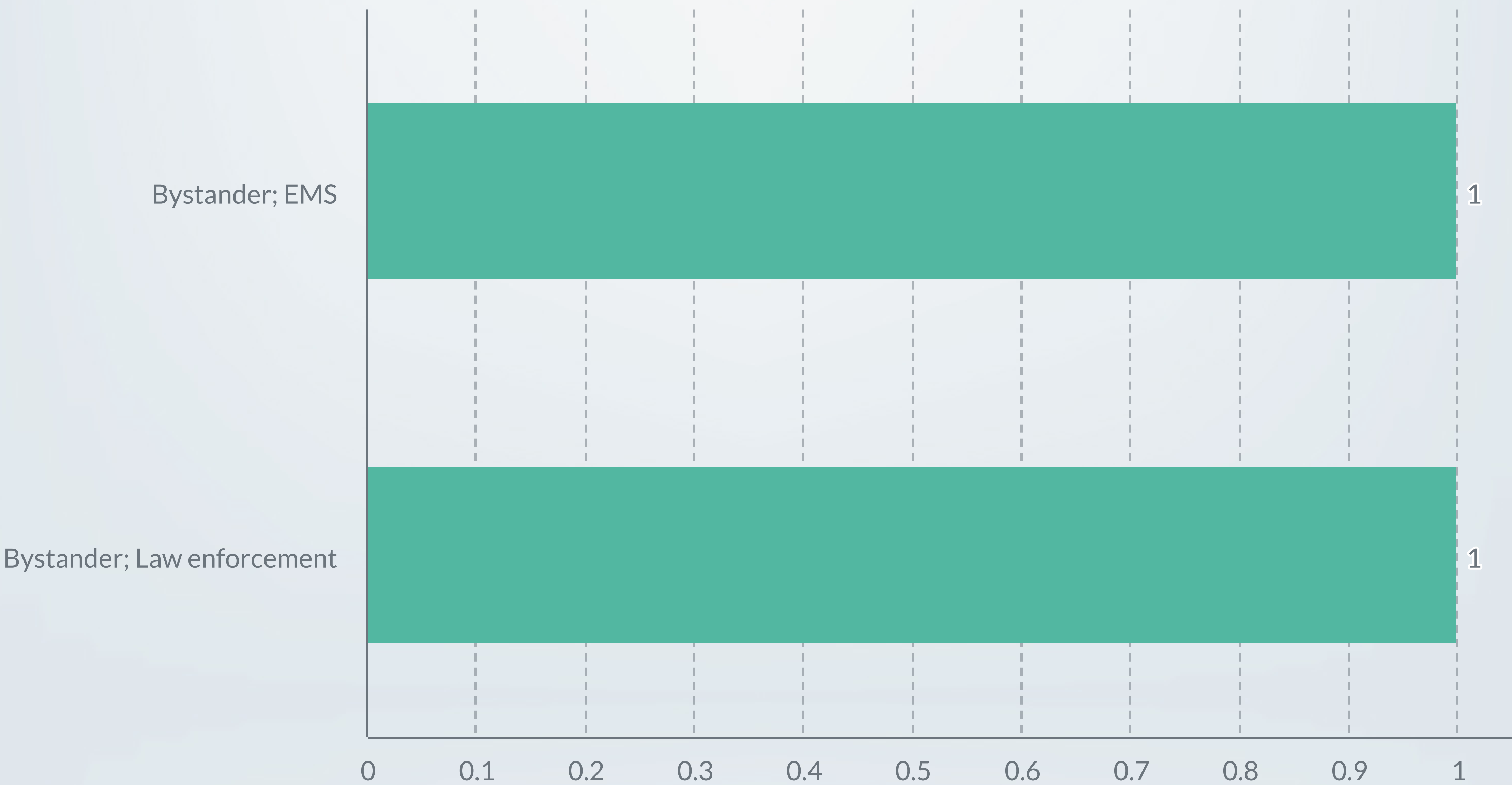
No Naloxone administered

HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED



10 decedents were given extensive resuscitative efforts (CPR, epinephrine, etc.) but were not given Naloxone.

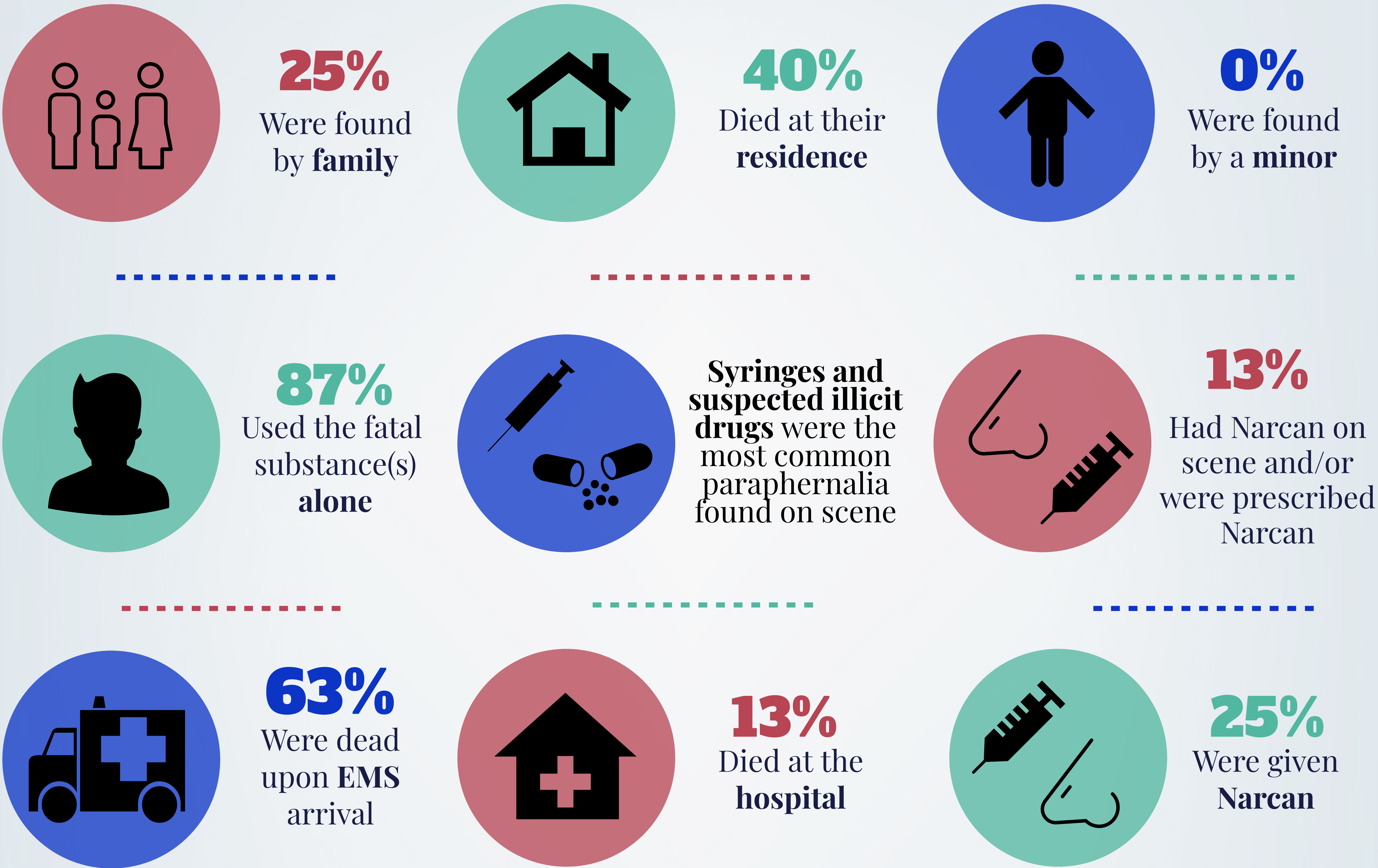
WHO ADMINISTERED NALOXONE?



Deaths Related to Opioids and Other Drugs

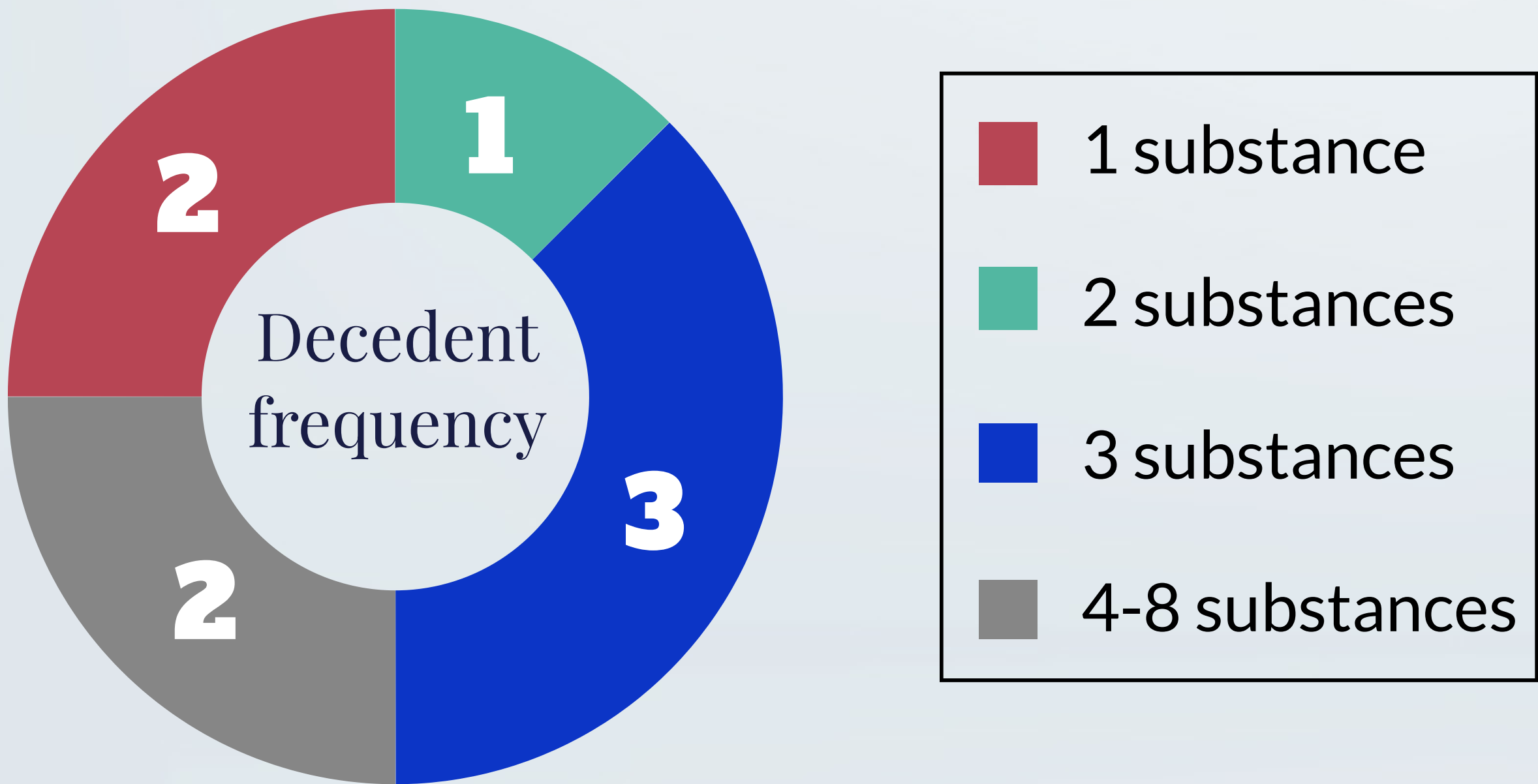
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Death Scene Findings

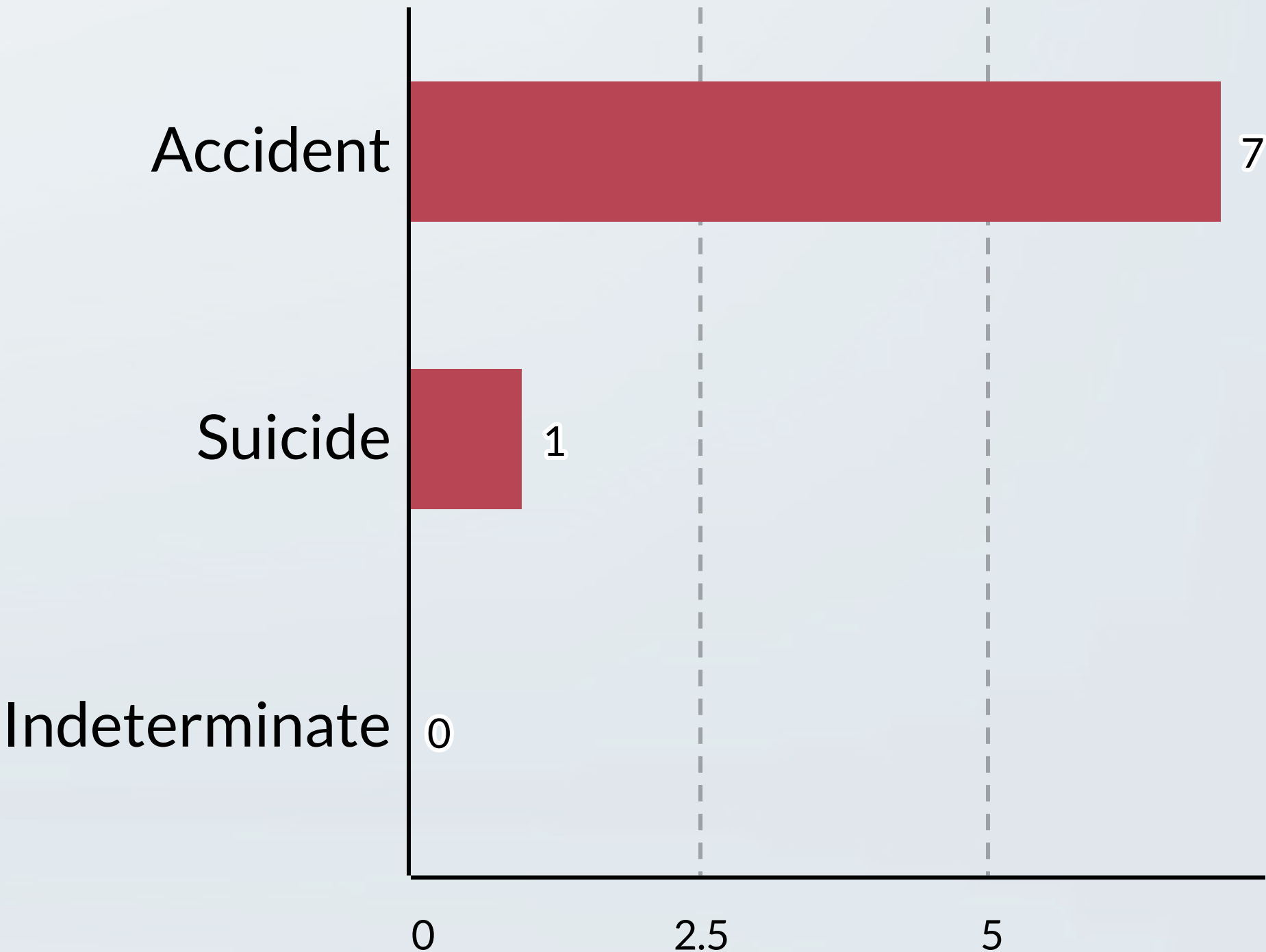


Autopsy and Toxicology Results

NUMBER OF SUBSTANCES CONTRIBUTING TO DEATH



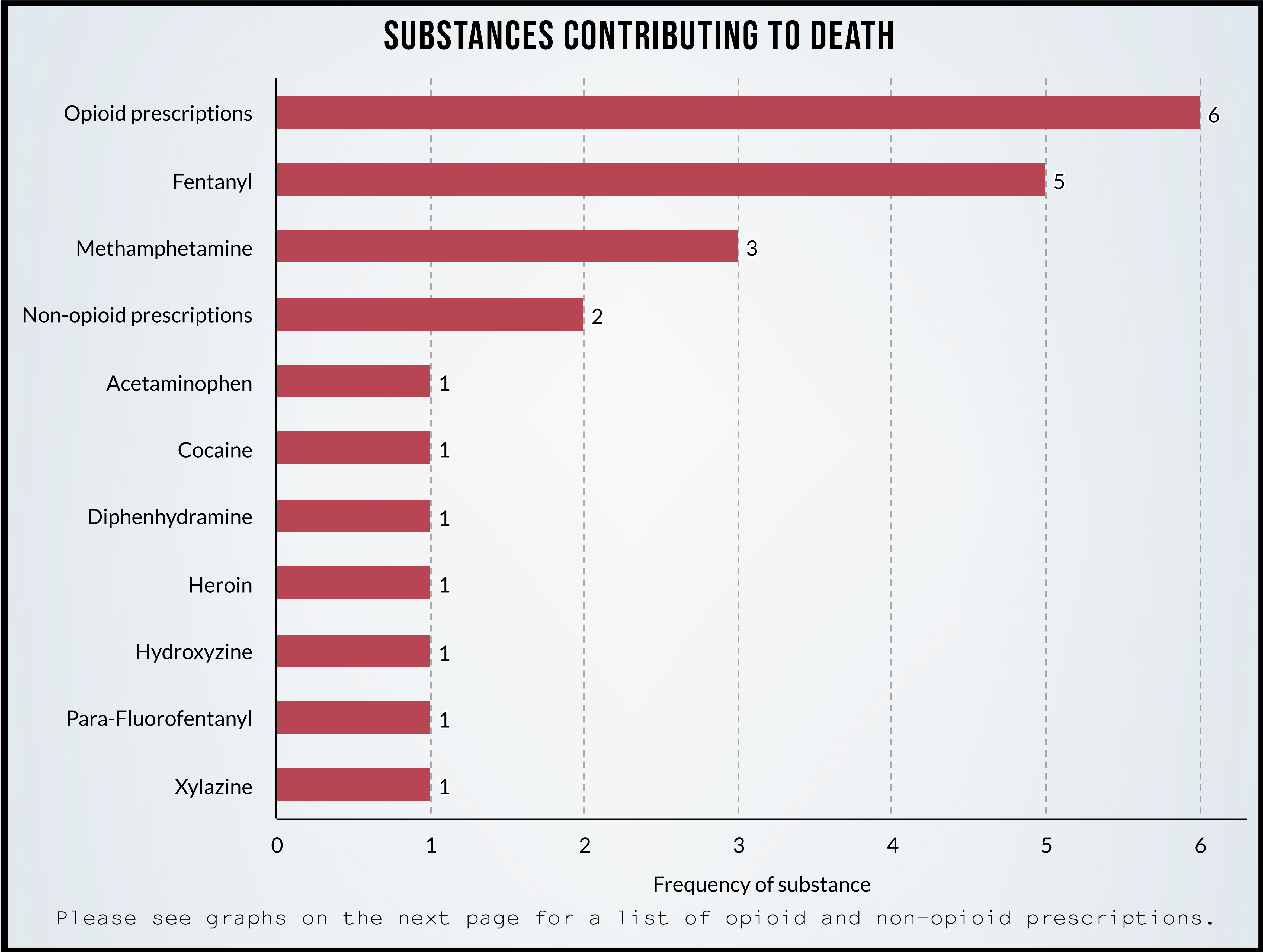
MANNER OF DEATH



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Substance Breakdown



HEROIN & FENTANYL

- 1 decedent had heroin in their toxicology
- This decedent also had fentanyl in their toxicology

XYLAZINE & FENTANYL

- 1 decedent had xylazine in their toxicology
- This decedent also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

- 1 decedent had a benzodiazepine and an opioid in their toxicology
- This decedent was not prescribed that opioid and benzodiazepine

METHAMPHETAMINE & OPIOIDS

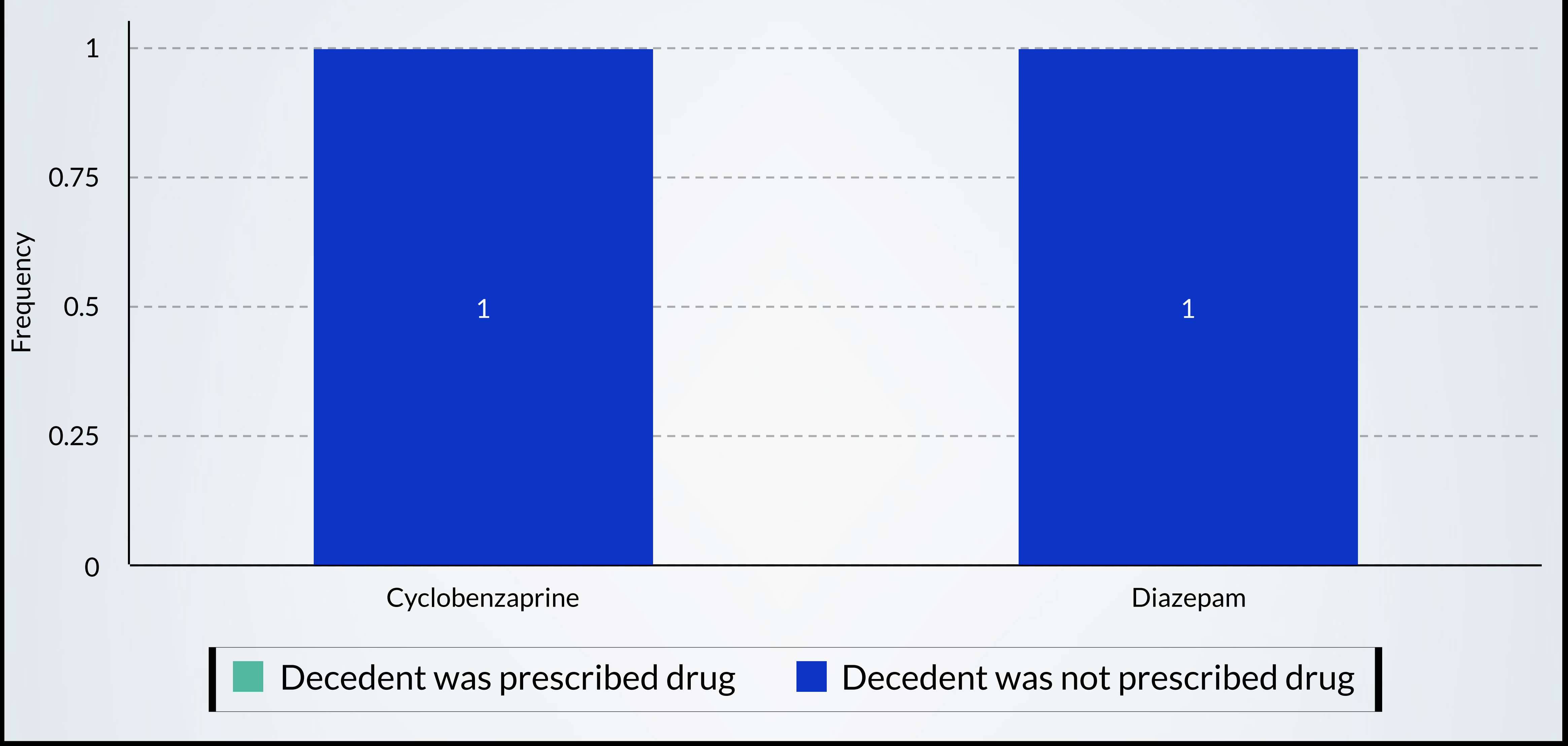
- 2 decedents had methamphetamine and opioid(s) in their toxicology
- 1 decedent had methamphetamine and heroin in their toxicology

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Autopsy and Toxicology Results, cont.

NON-OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY

