

# 2020 ANNUAL REPORT

## Deaths related to opioids and other drugs

### Grand Traverse

*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](mailto:chloe.bielby@med.wmich.edu)

# Deaths Related to Opioids and Other Drugs

Grand Traverse

## All Drug-Related Deaths

Age	Race	Sex	Death Certificate: Substances Contributing to Death	Injury Zip Code
21	W	F	Pt. I: Fentanyl, alprazolam	49685
28	W	F	Pt. I: Dimethylether	49686
28	W	M	Pt. I: Fentanyl, alprazolam, xylazine, gabapentin	49643
28	W	M	Pt. I: Fentanyl, acetyl-fentanyl, methamphetamine	48624
30	W	M	Pt. I: Acetyl fentanyl, fentanyl, methamphetamine, morphine, norfentanyl	48653
31	W	M	Pt. I: Methadone, alprazolam	49646
31	W	M	<i>Pt. I: Acute and chronic alcohol use*</i>	49684
32	W	M	Pt. I: Methamphetamine	49643
33	W	F	Pt. I: Heroin, fentanyl, ethanol	49686
34	W	M	Pt. I: Fentanyl	49684
34	B	M	Pt. I: Ethanol, heroin, methamphetamine, fentanyl	49696
35	W	M	Pt. I: Fentanyl, heroin, mitragynine, ethanol	49684
41	W	F	<i>Pt. I: Ethanol*</i>	49684
47	W	M	Pt. I: Fentanyl, diphenhydramine	49637
47	W	F	<i>Pt. I: Acute and chronic alcohol use*</i>	49519
49	W	M	Pt. I: Methamphetamine, mitragynine	49637
54	W	F	Pt. I: Fentanyl, mitragynine, alprazolam, oxycodone	49686
54	W	M	Pt. I: Opiates	49659
55	W	F	Pt. I: Bupropion, citalopram / escitalopram, ethanol	49649
57	W	M	Pt. I: Hydrocodone, gabapentin	49685
68	W	M	<i>Pt. I: Acute and chronic alcohol use*</i>	49684
76	W	M	Pt. I: Hydromorphone, zolpidem, gabapentin	49686

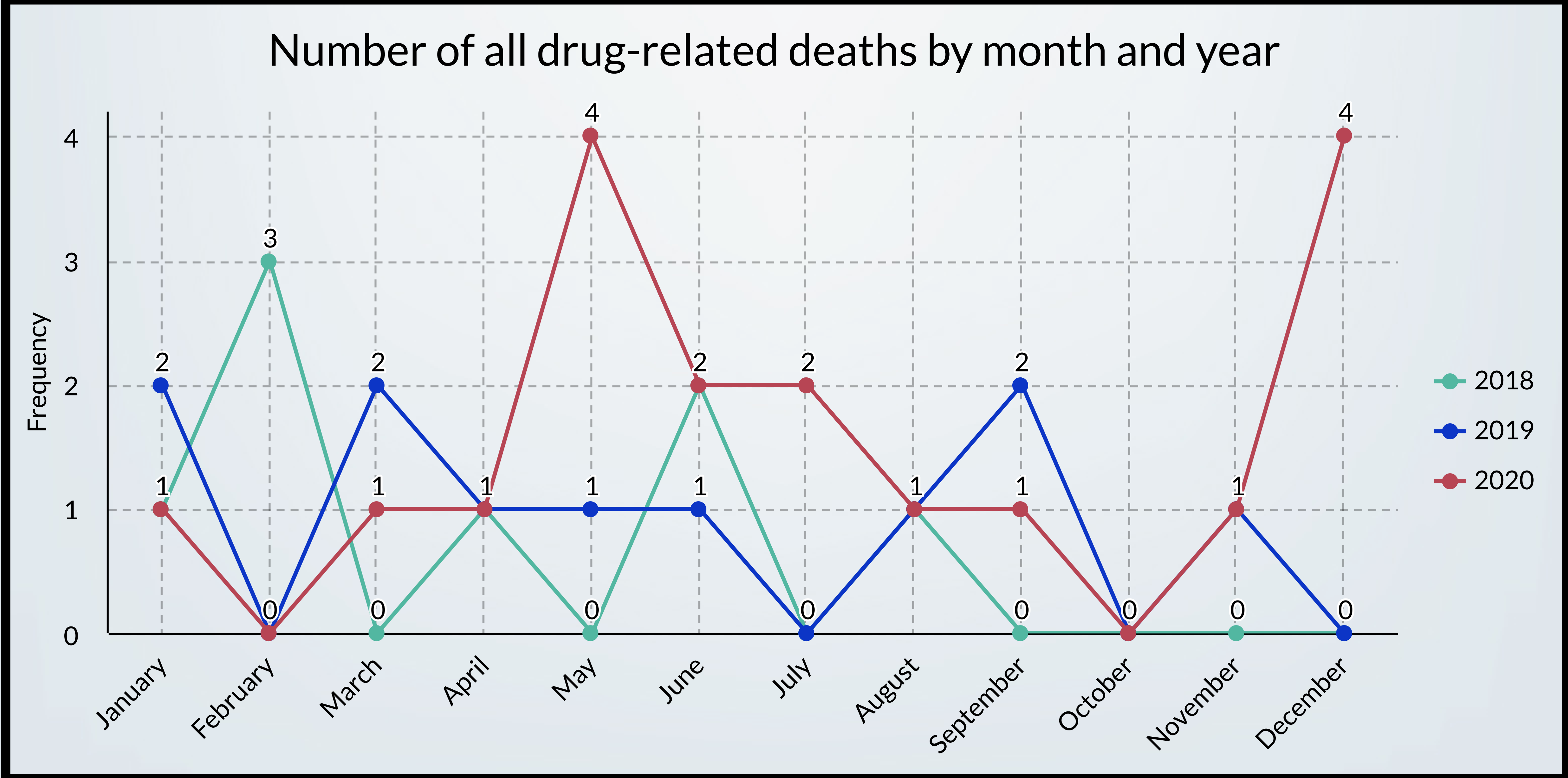
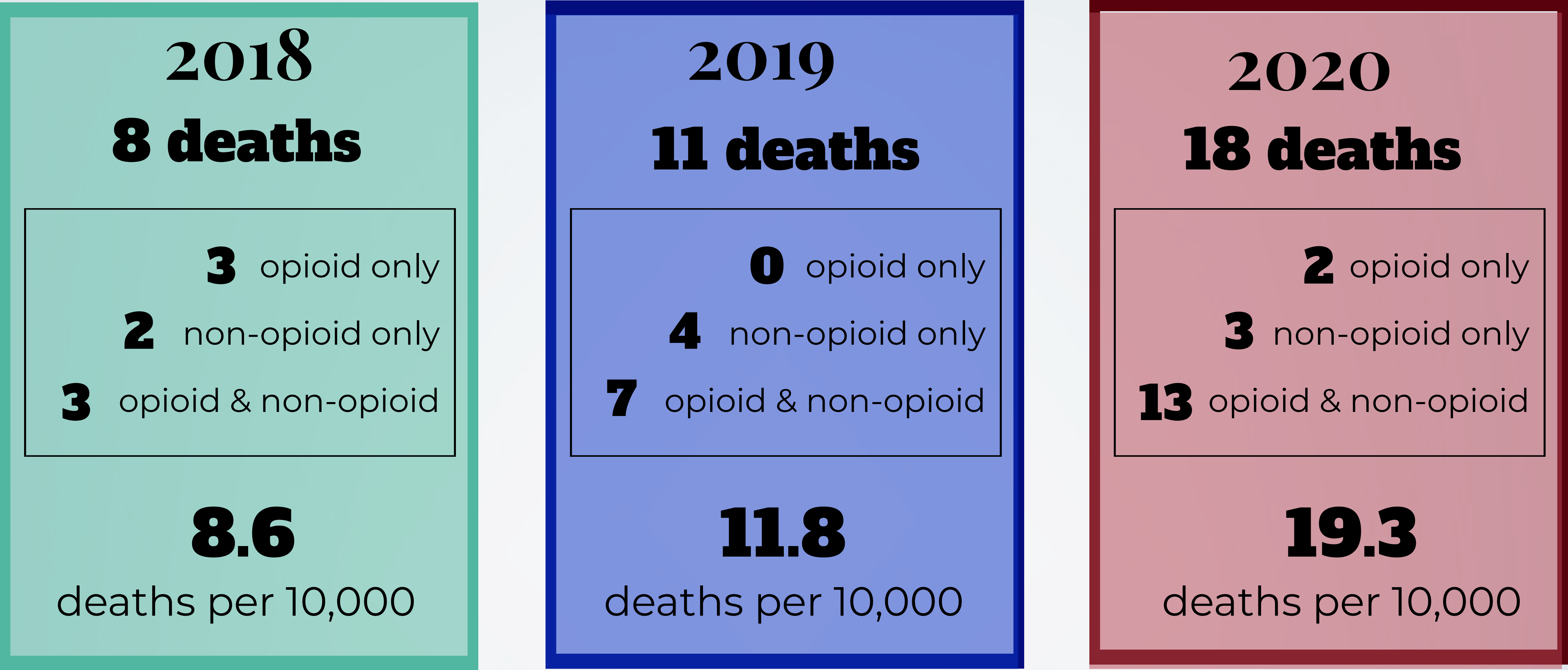
\* Case is not included in the following report



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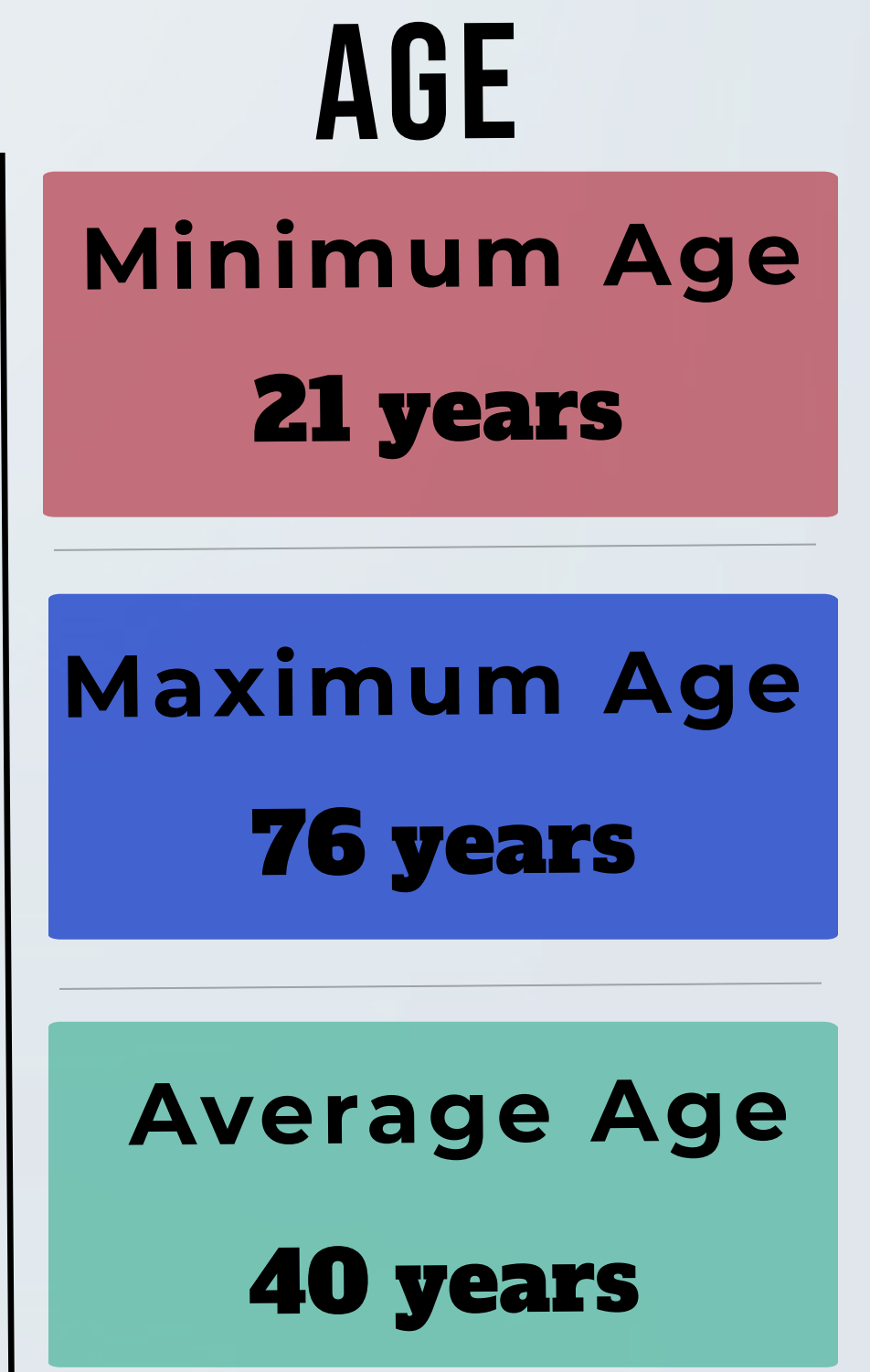
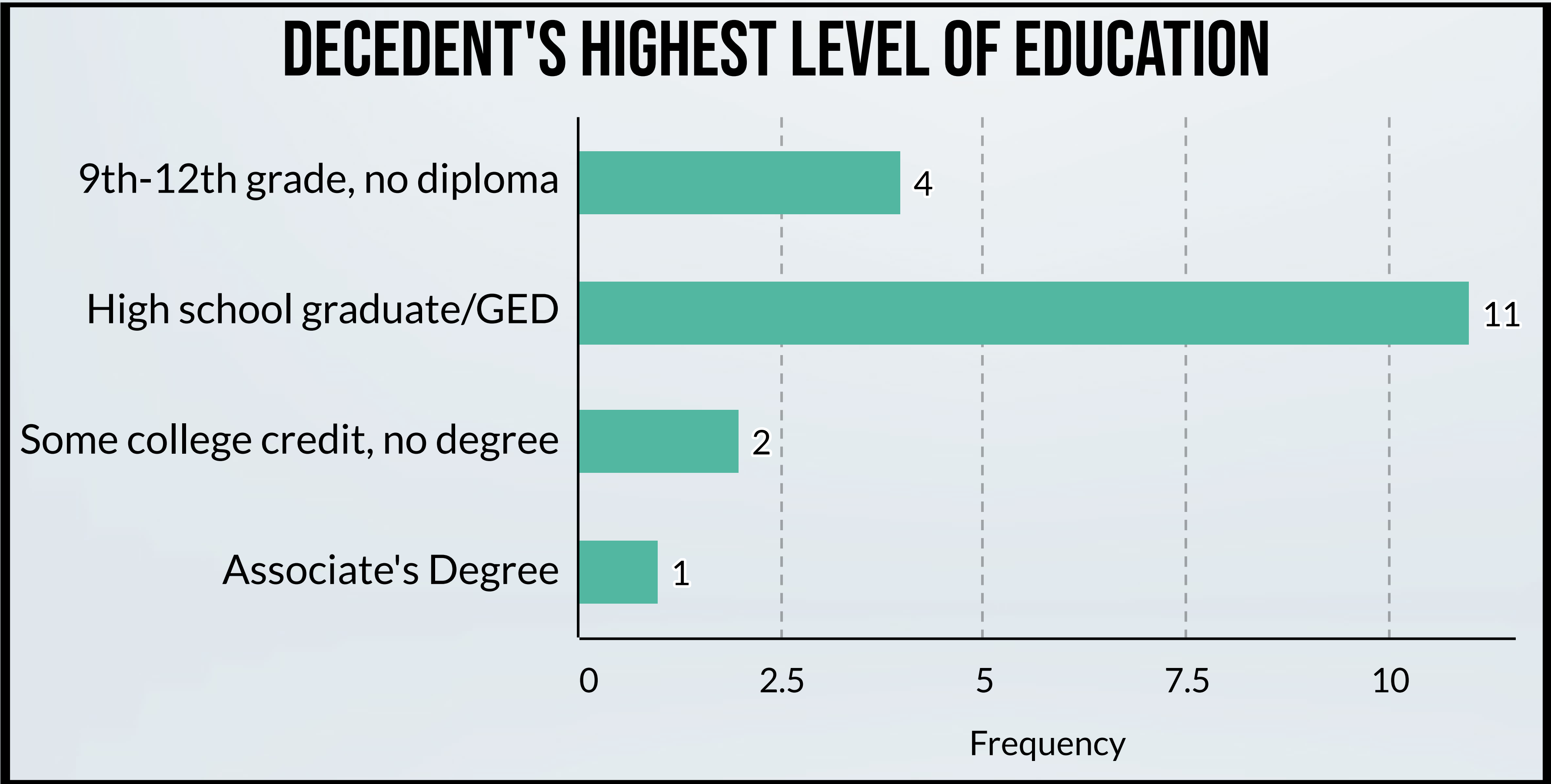
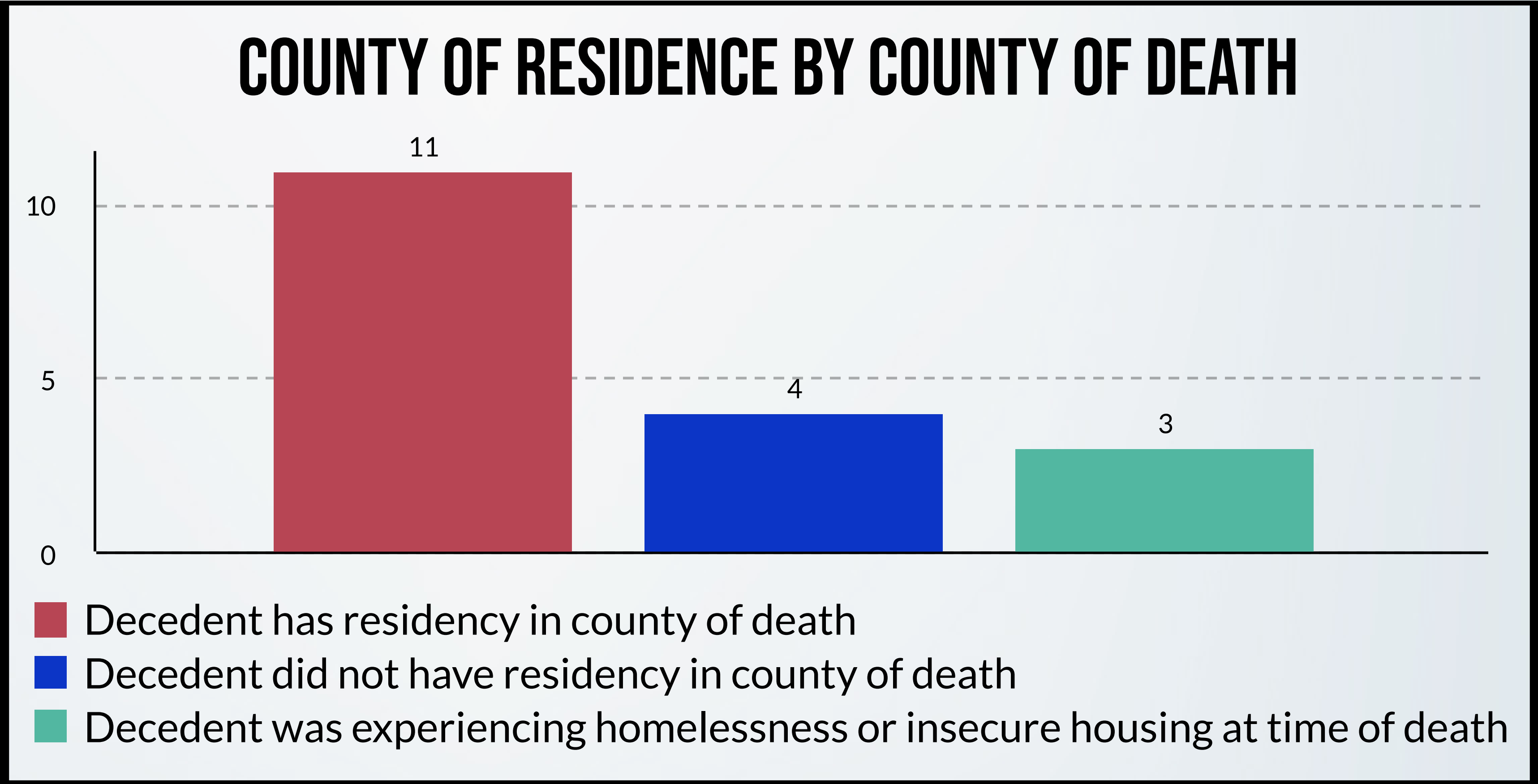
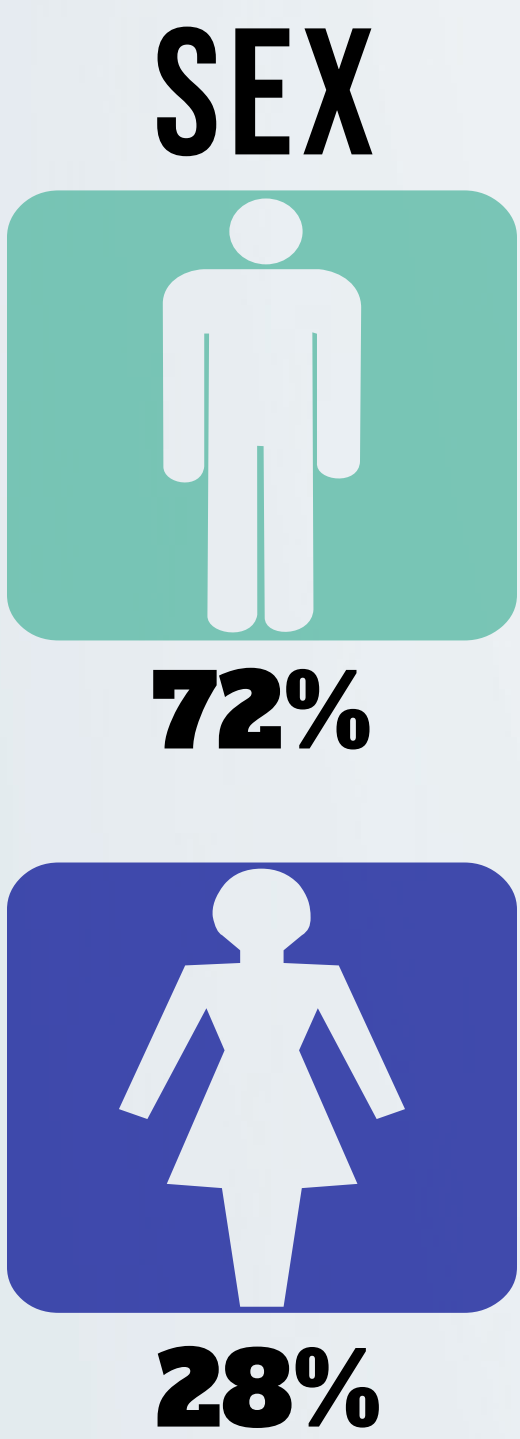
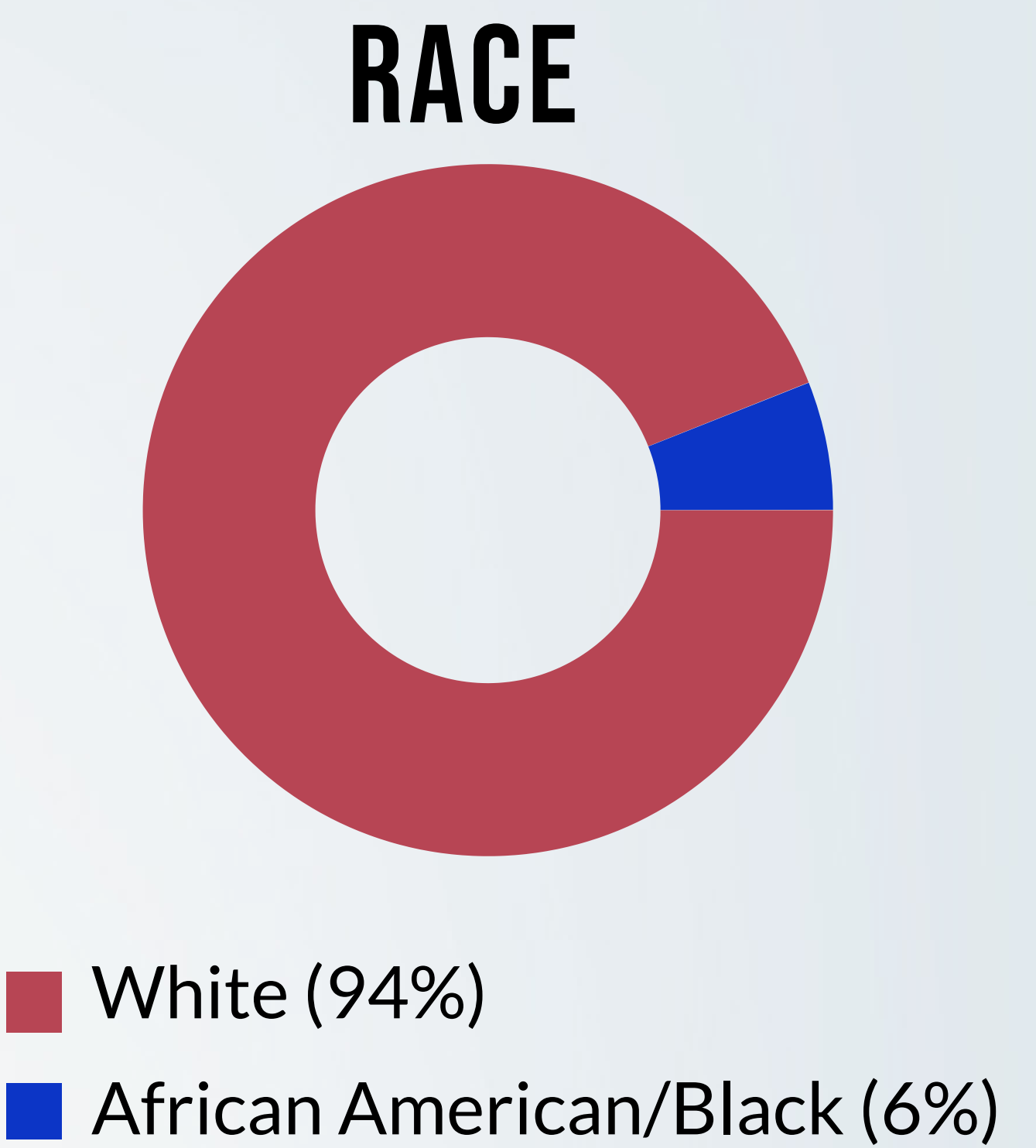
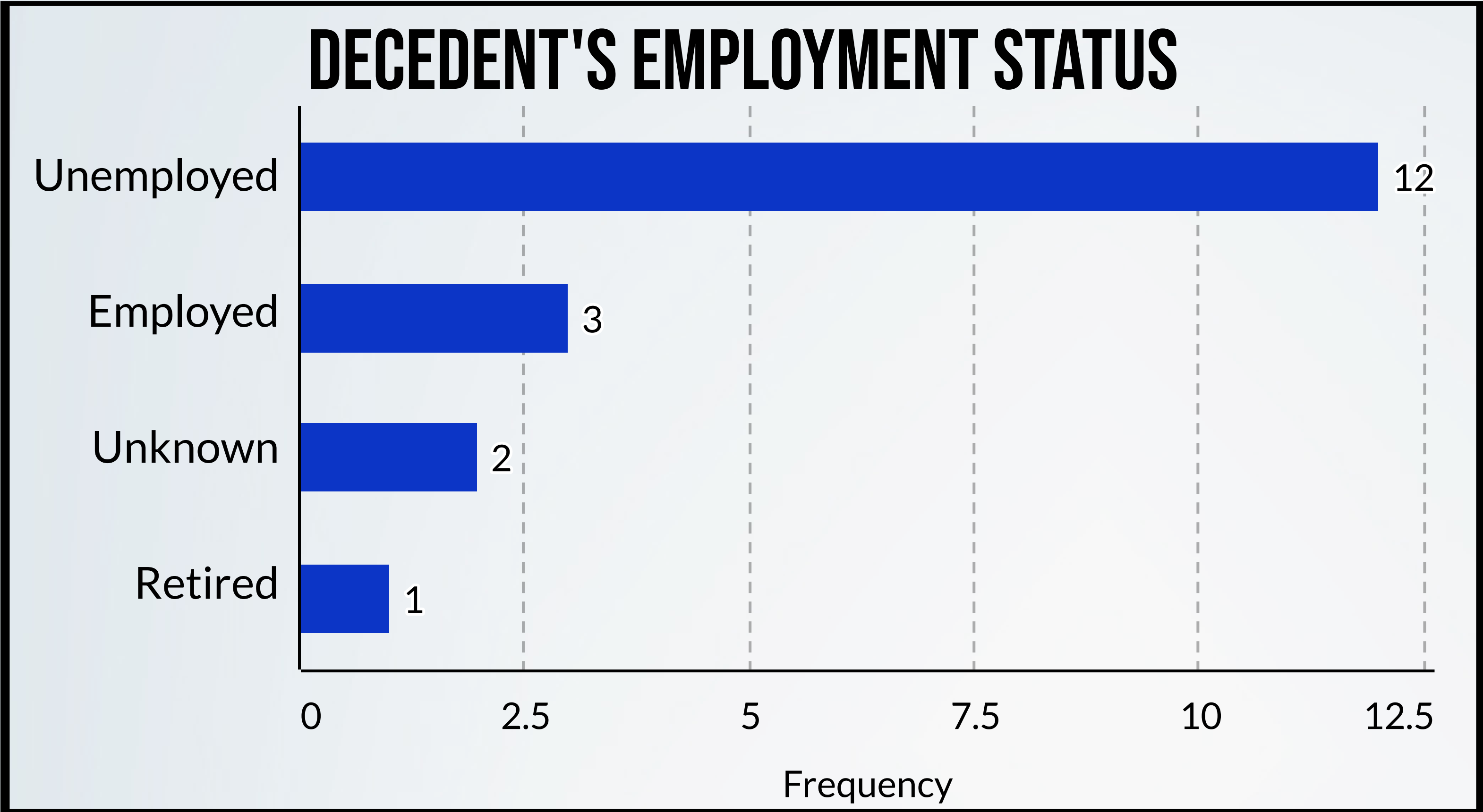
Total deaths due to drugs: 2018, 2019, 2020



Deaths Related to Opioids and Other Drugs

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Demographics



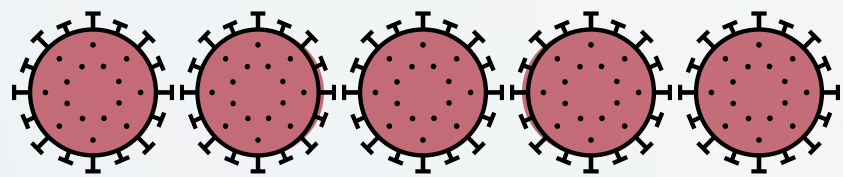
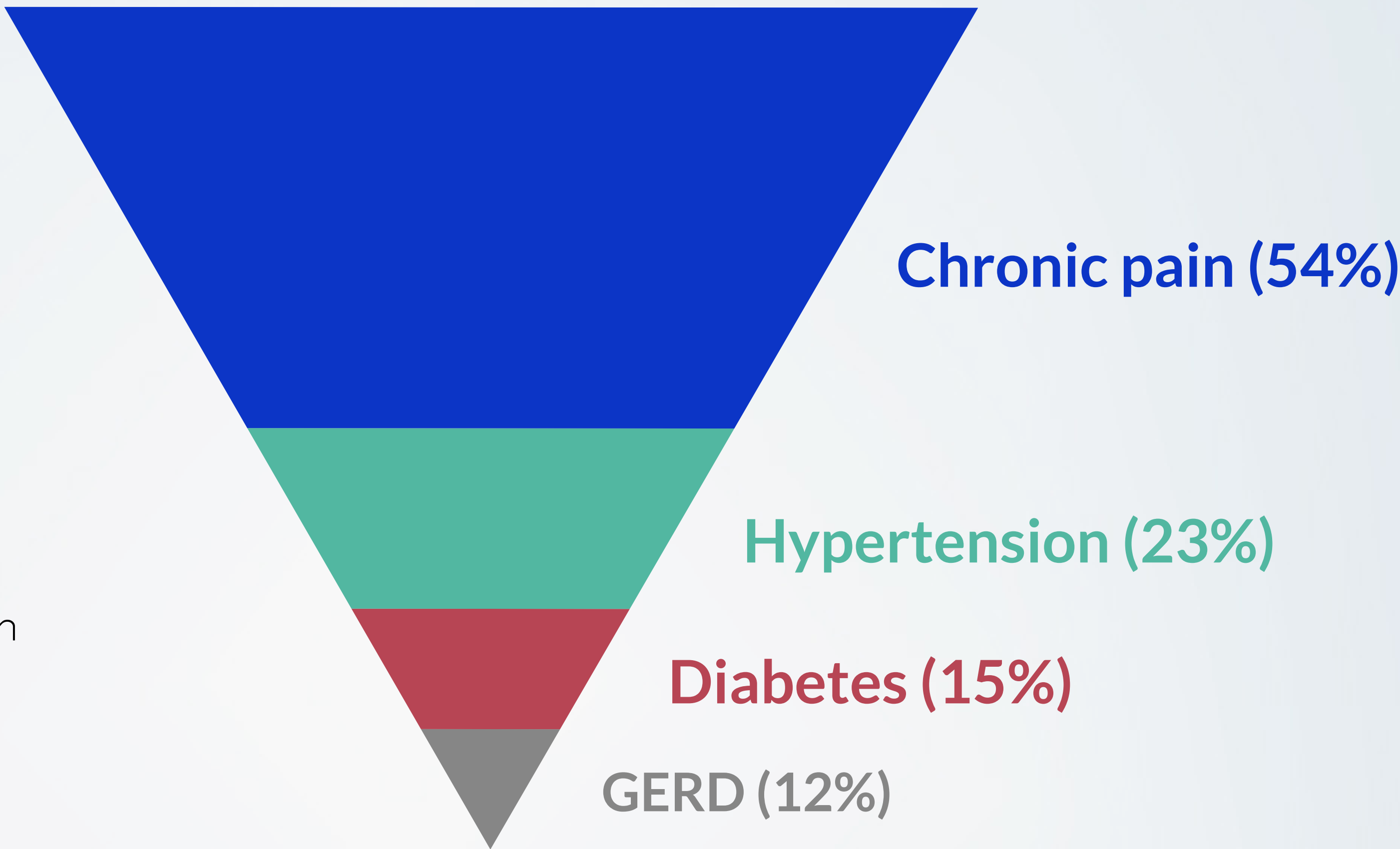
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Health Factors

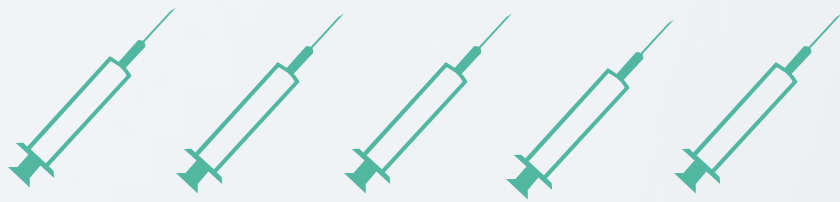
MOST  
PREVALENT  
AILMENTS\*

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



At least **1** decedent was **Hepatitis C** positive

This decedent was known to use **substances intravenously**



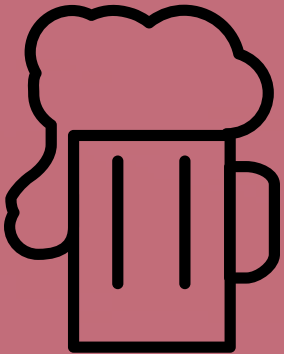
Decedent used tobacco

**72%+**



Decedent drank alcohol

**39%+**

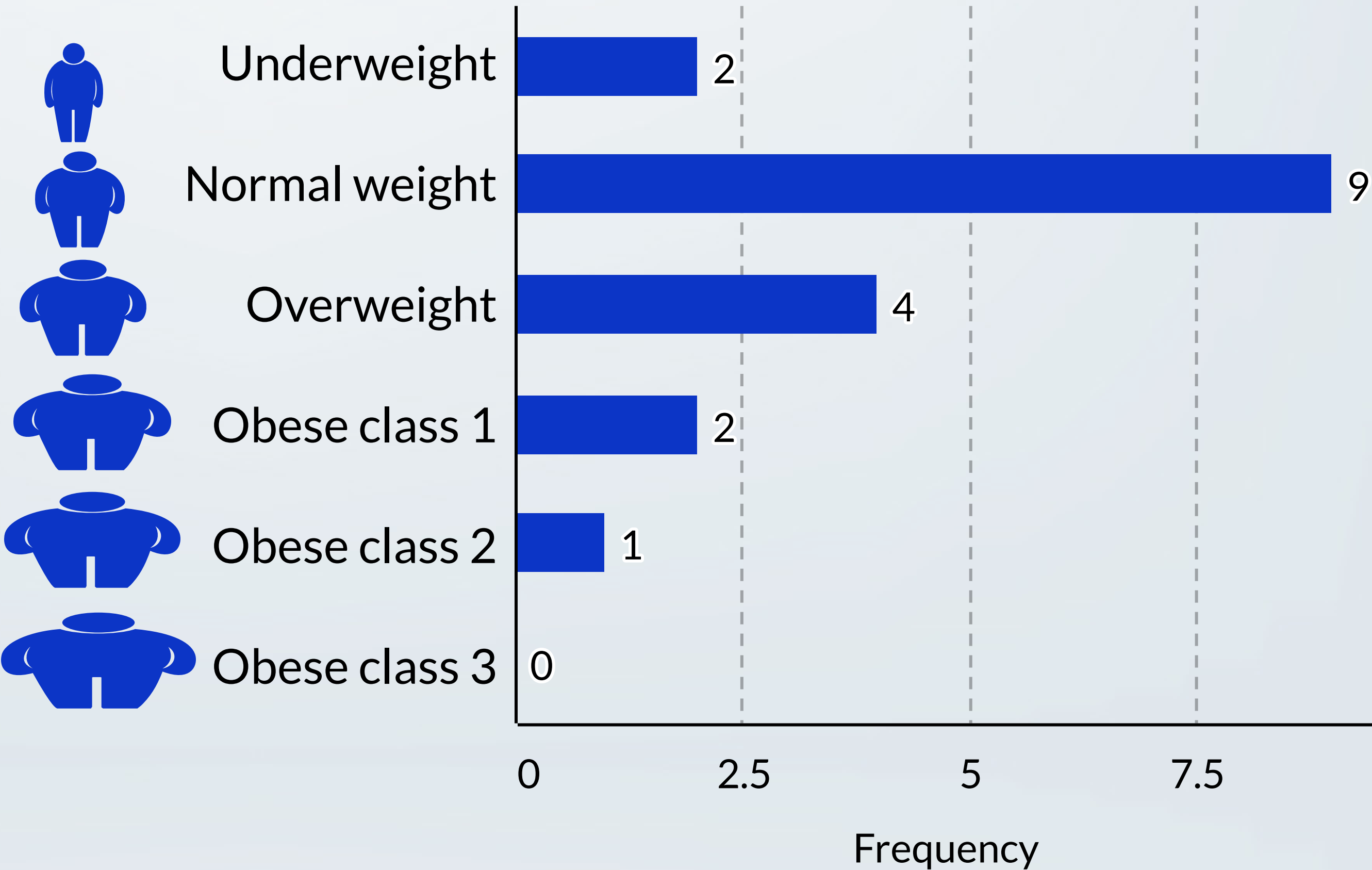


Decedent had a PCP

**39%**



BODY MASS INDEX (BMI)





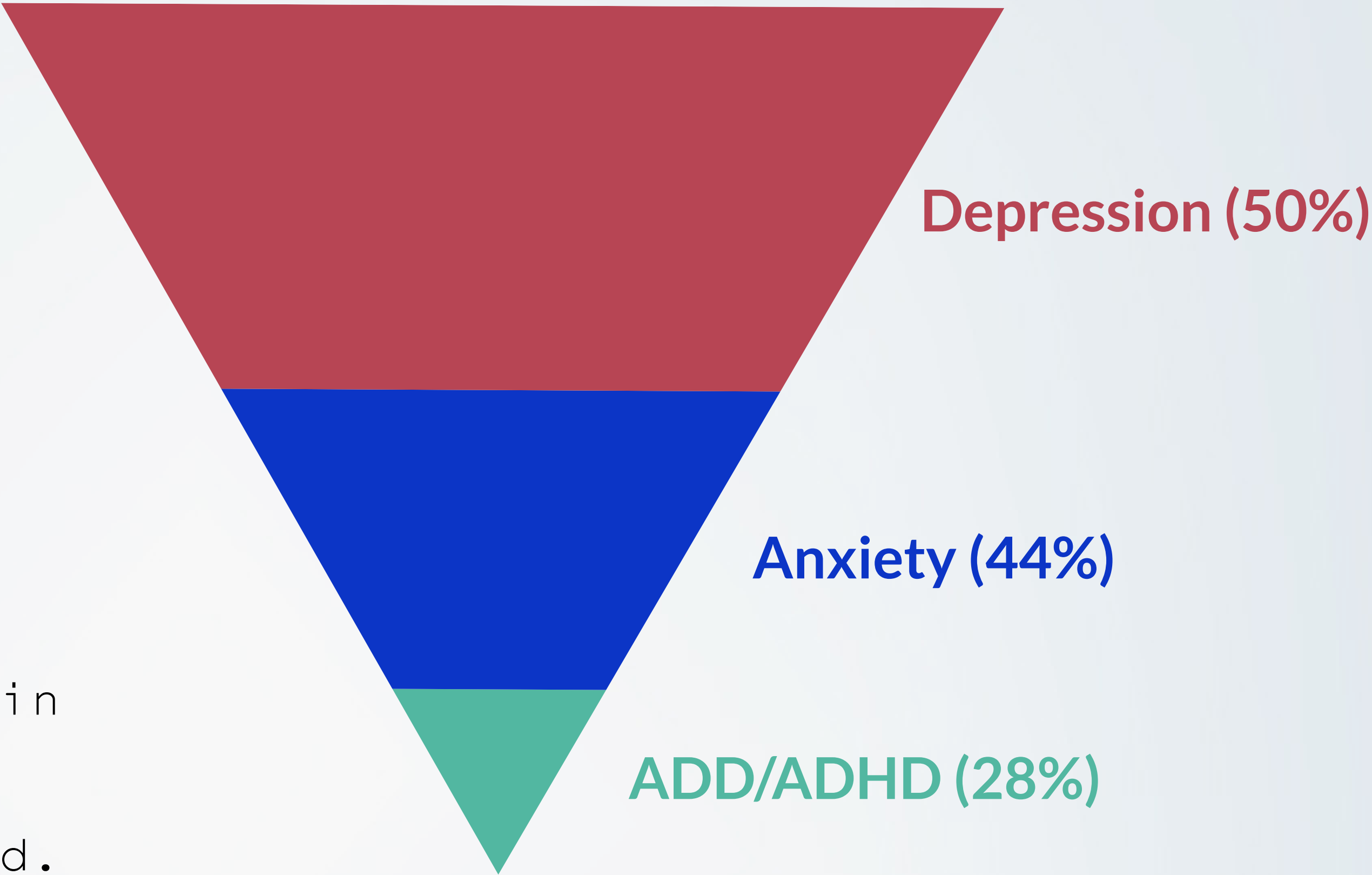
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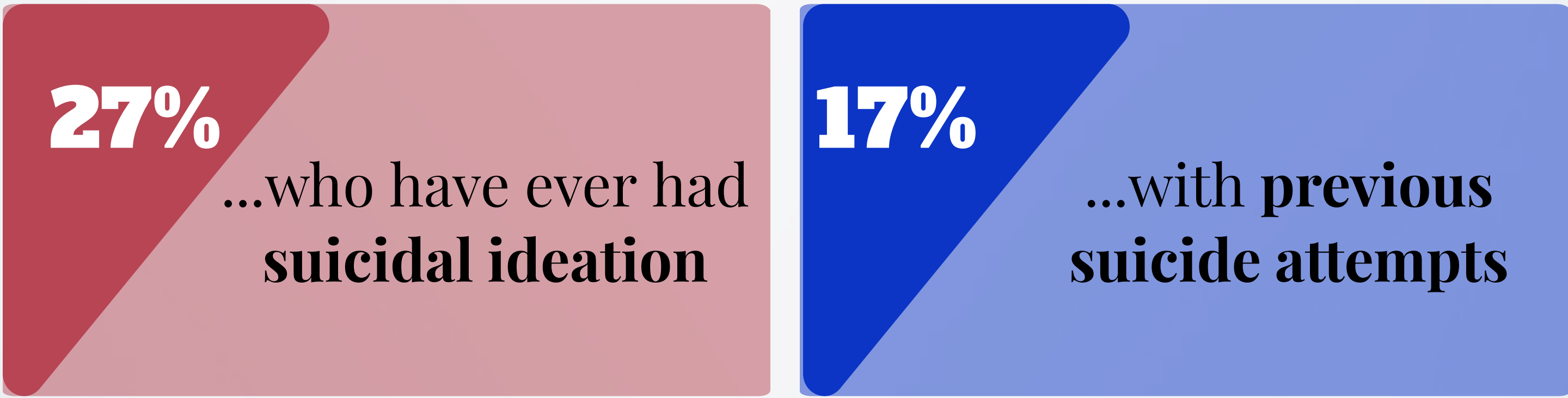
# Mental Health Factors

**MOST  
PREVALENT  
MENTAL ILLNESSES\***

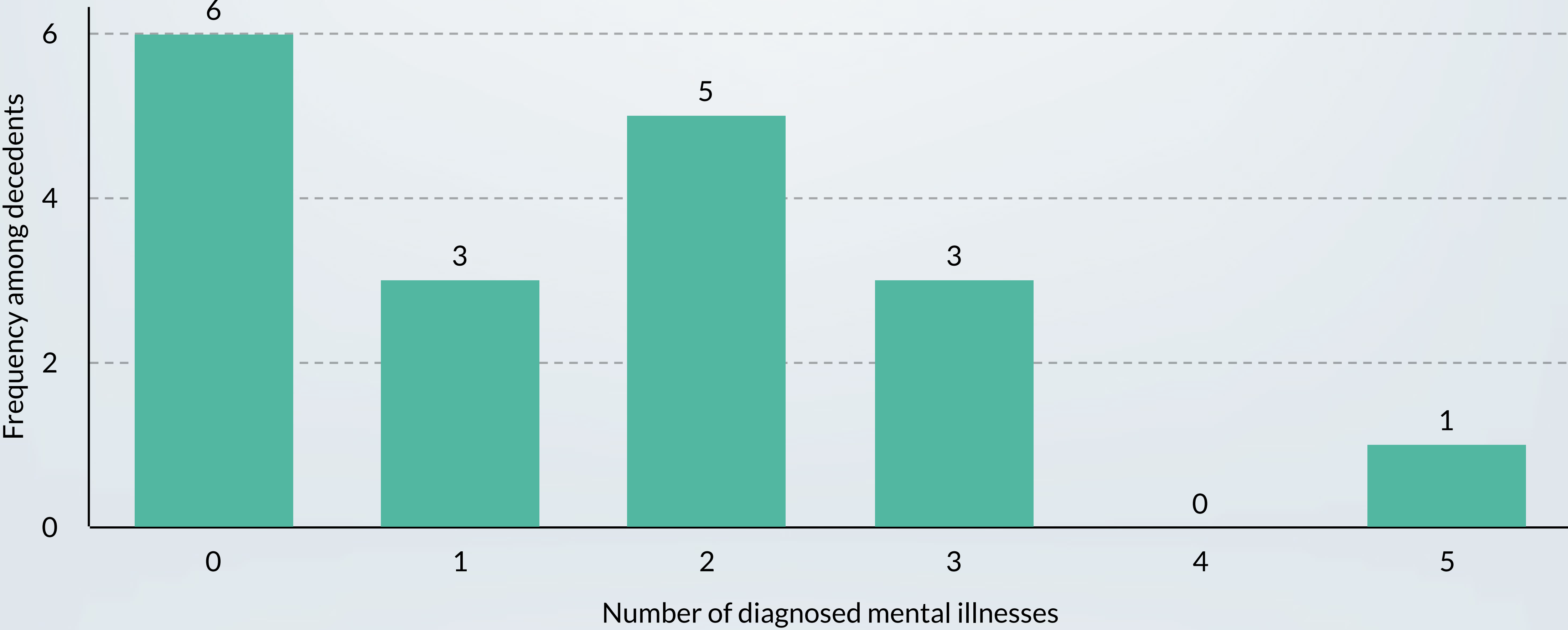
\*Decedents may be represented in more than one category. Only mental illnesses with official diagnosis are included.



## PERCENTAGE OF DECEDENTS...



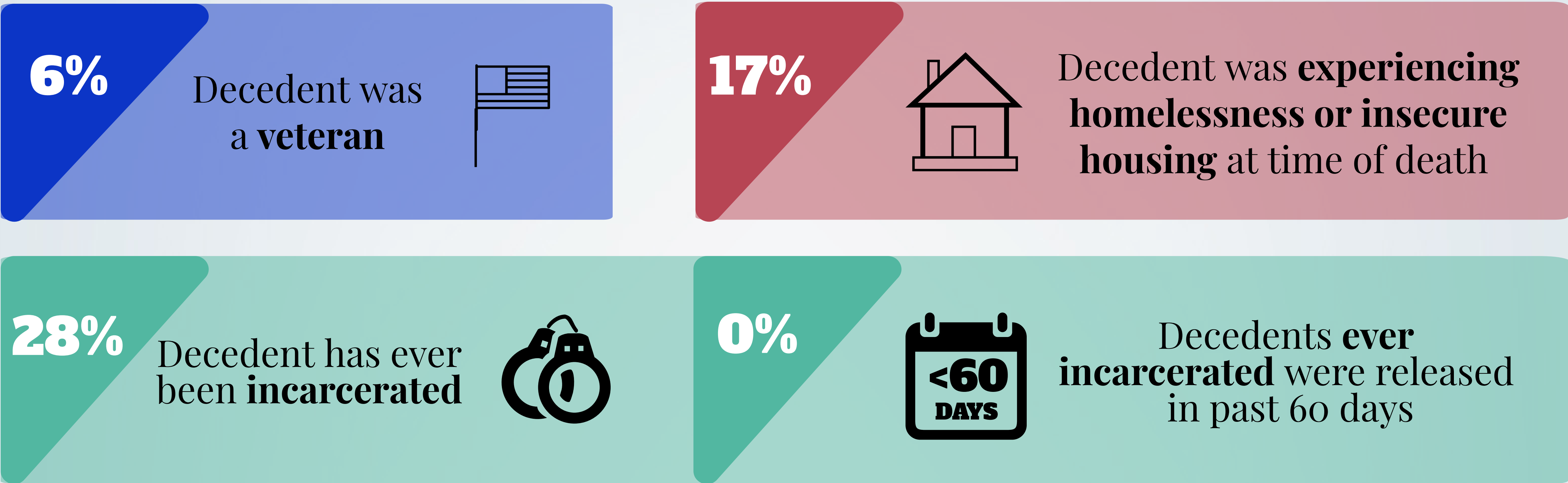
## NUMBER DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS



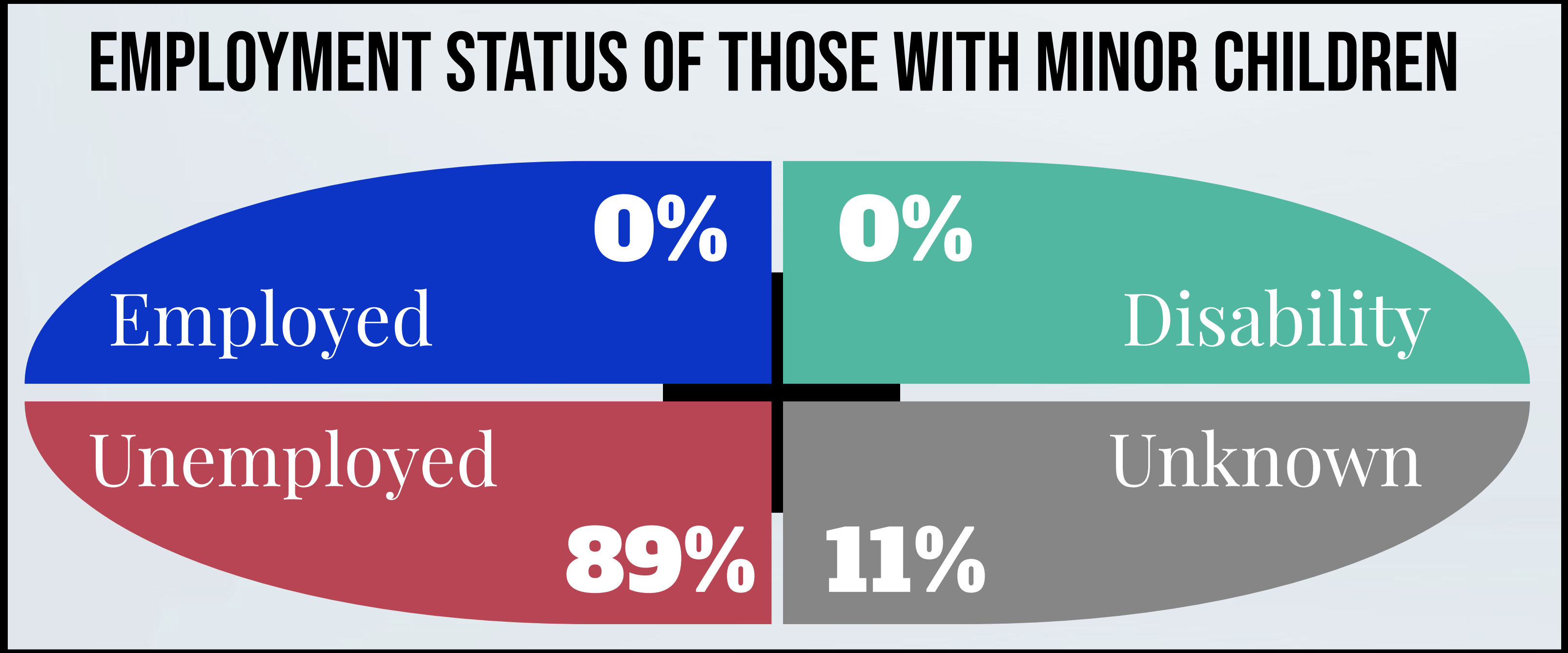
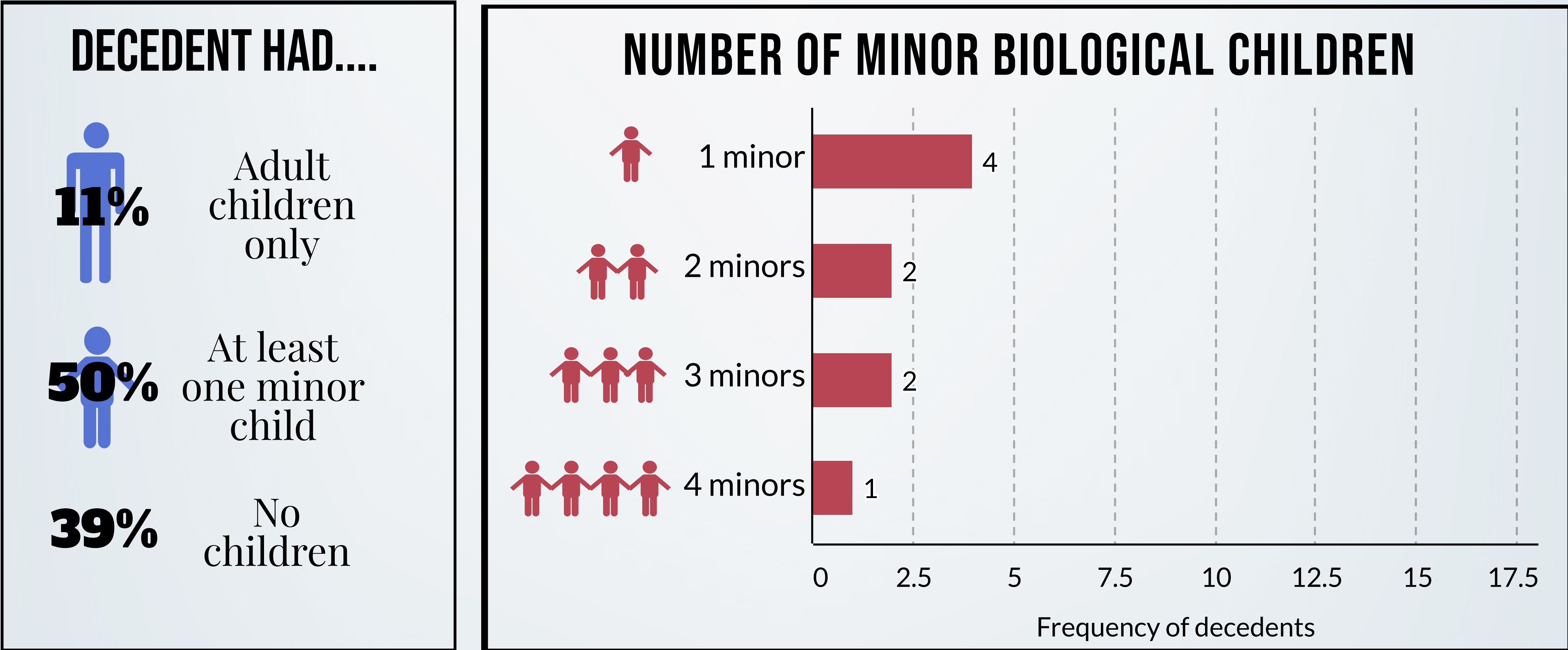
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Social Factors



Children



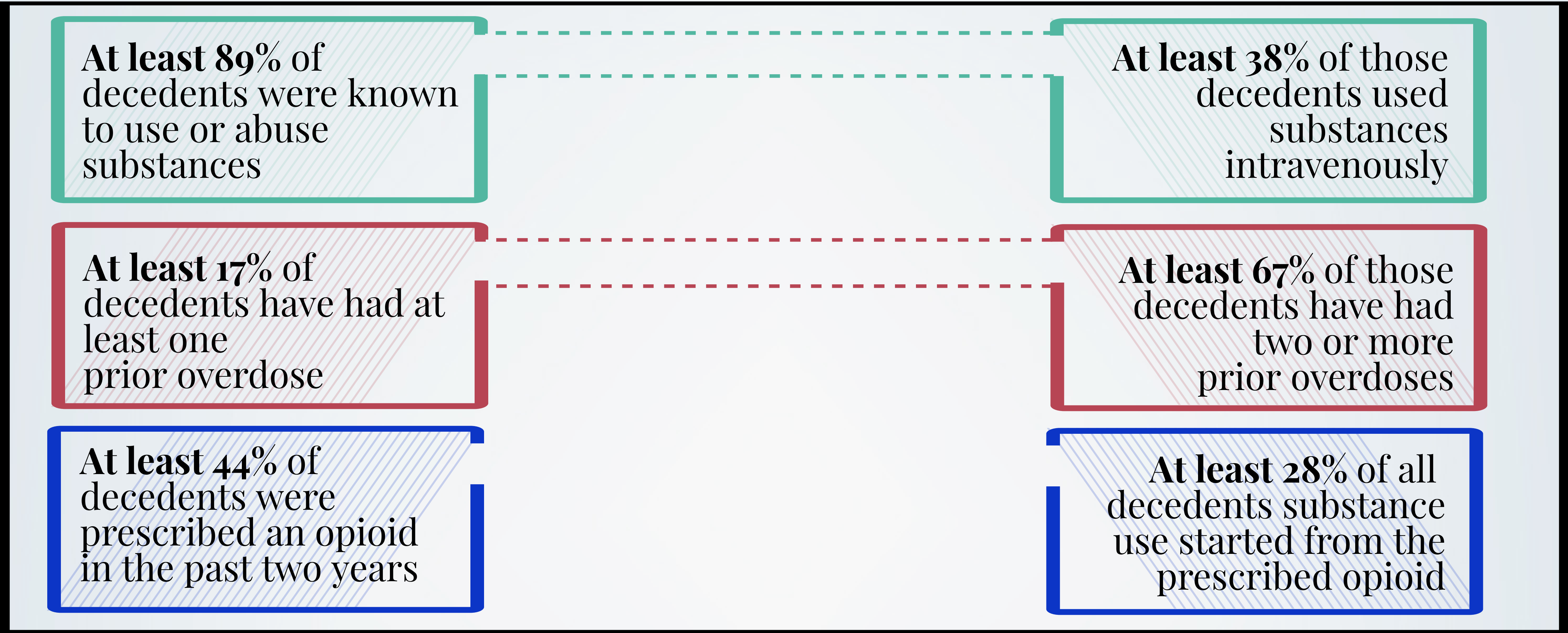
3 decedents lived with their minor child(ren) at time of death



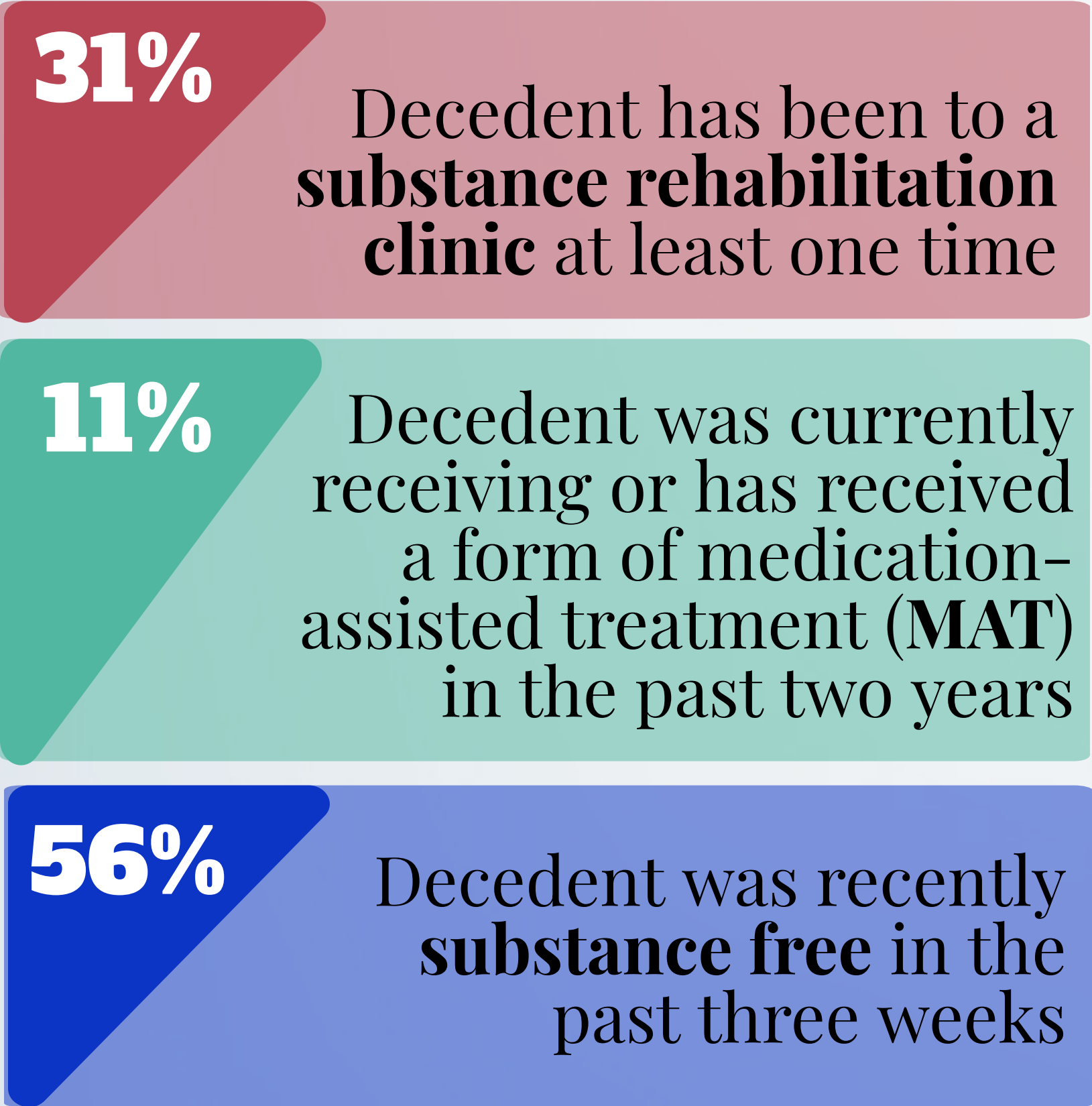
Deaths Related to Opioids and Other Drugs

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# Substance Use History



## RECOVERY HISTORY (N=16)\*



### SUSPECTED REASONS FOR RELAPSE\*\*

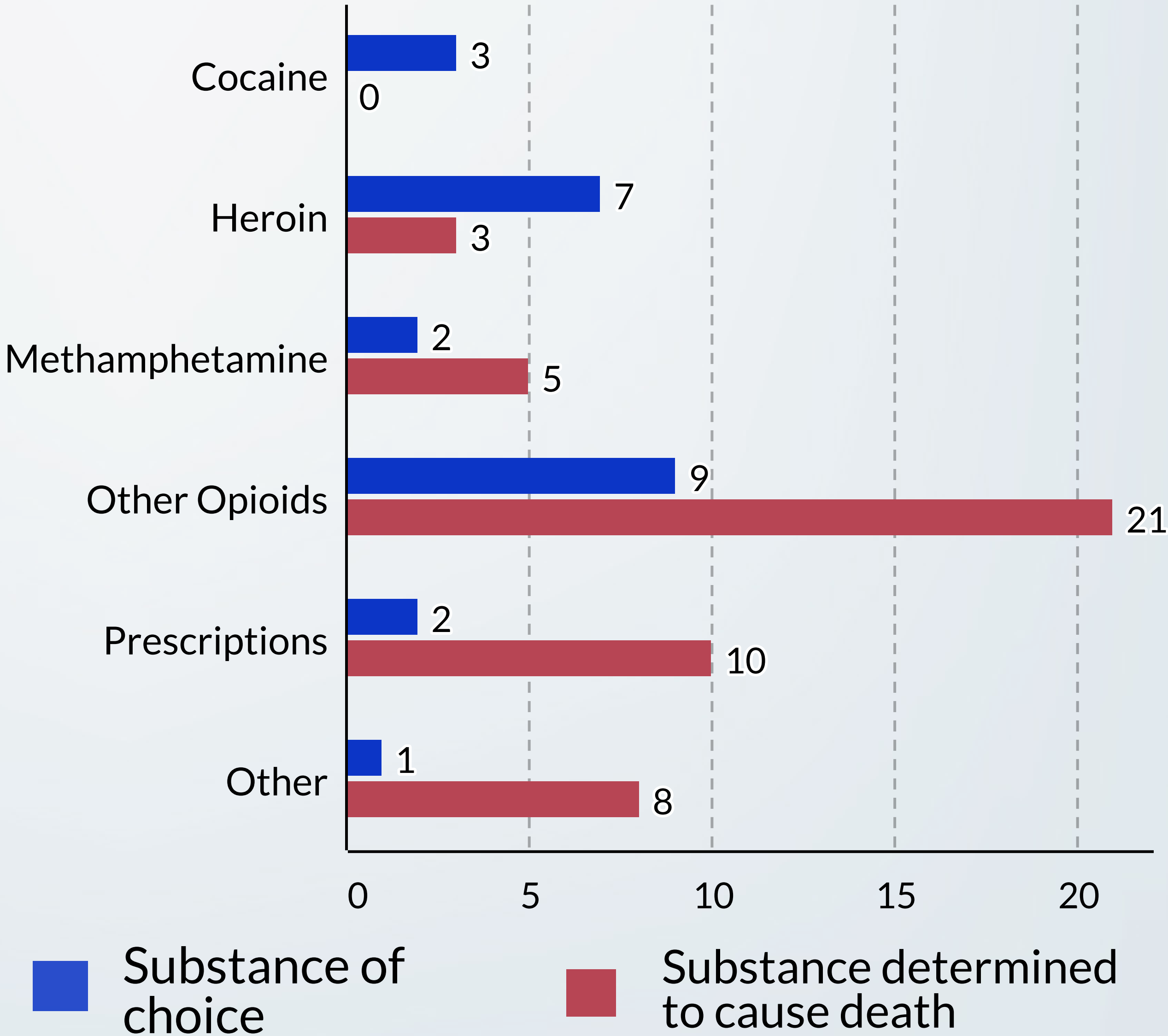


\*ONLY decedents known to use substances are included.

\*\*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 death of a loved on and learning upsetting news.

## 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: 2 decedents were not known to use substances. Prescriptions do not include opioids.

Other includes dimethylether, diphenhydramine, ethanol, mitragynine, and xylazine.

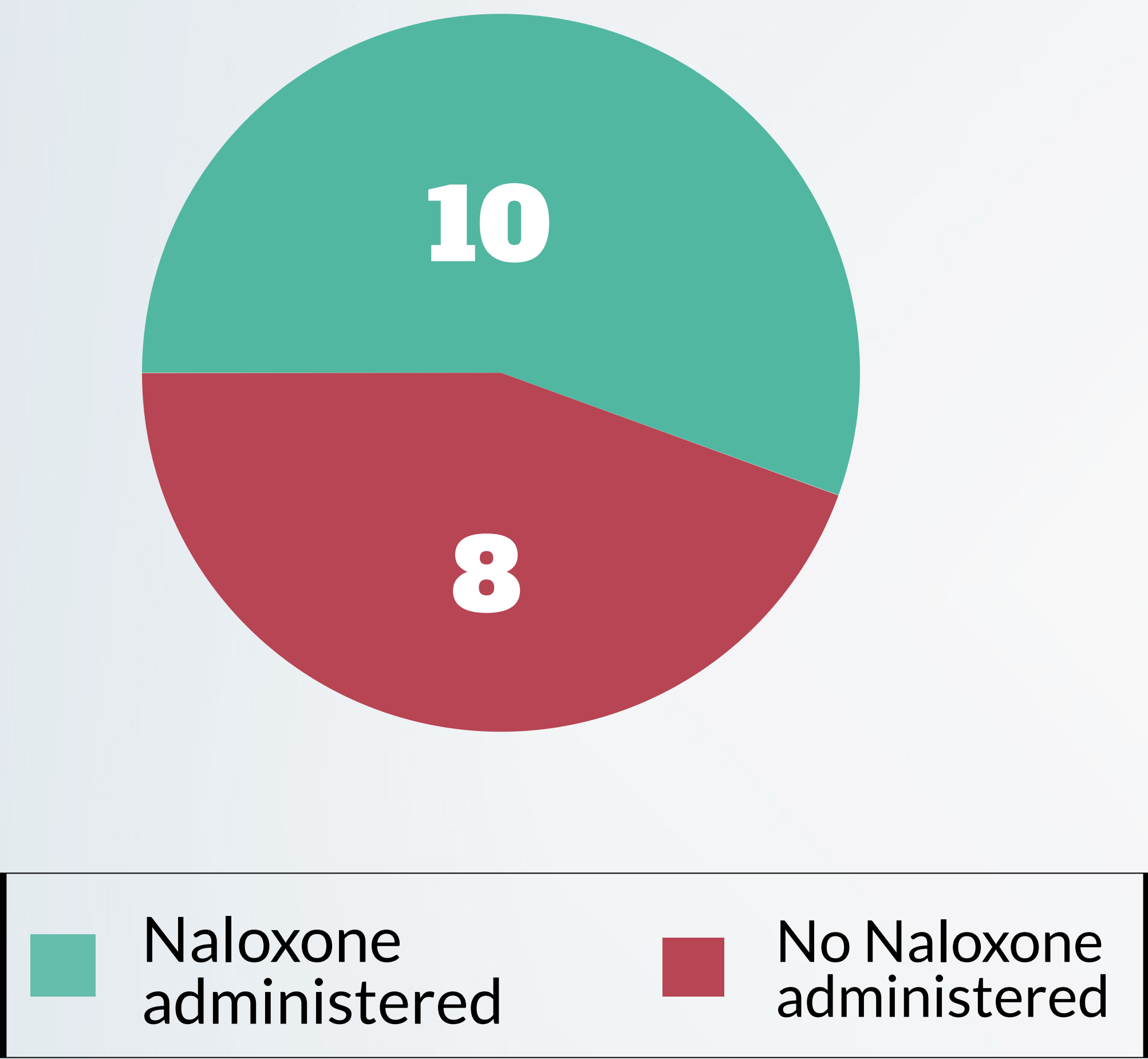


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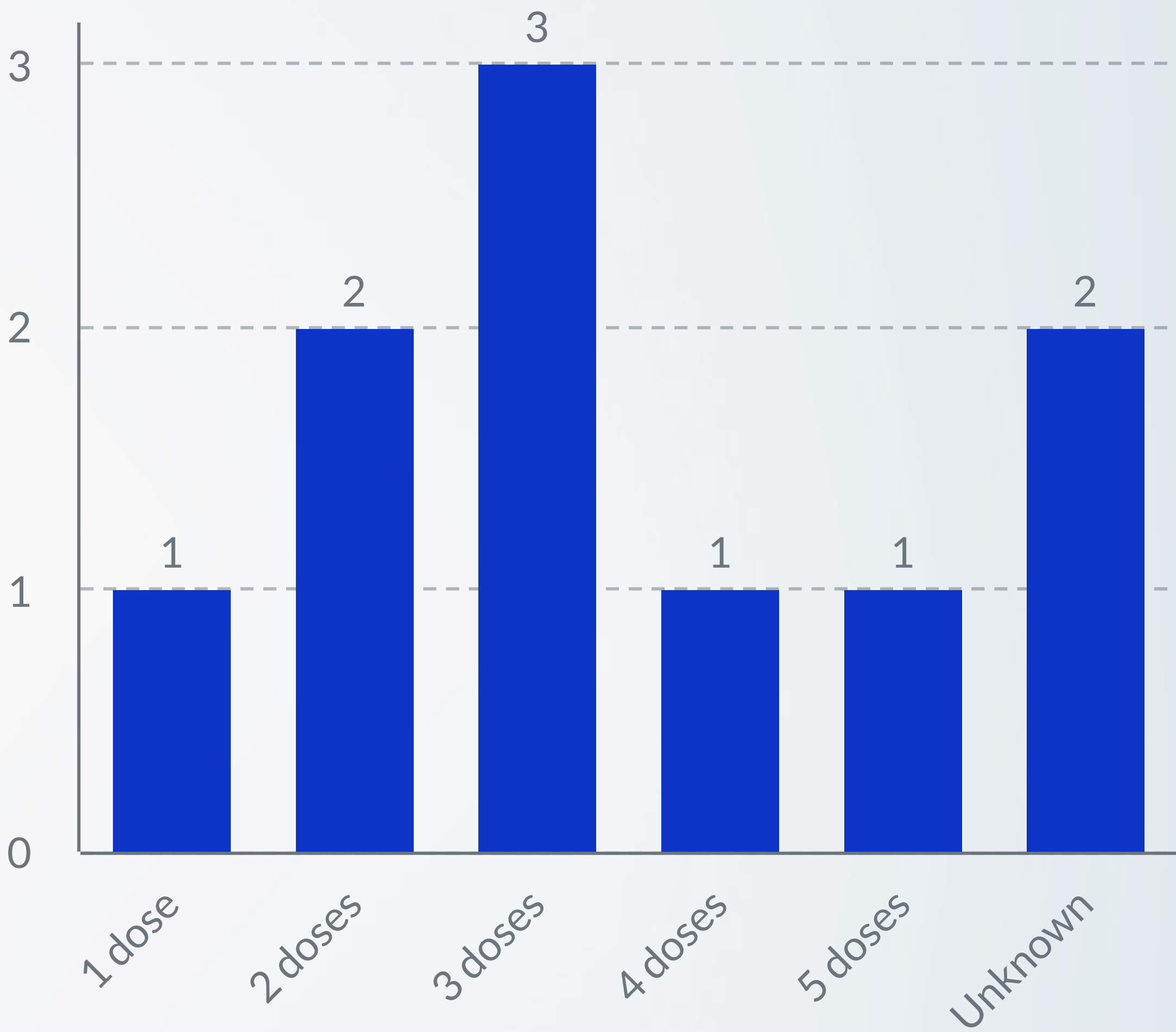
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Naloxone Administration

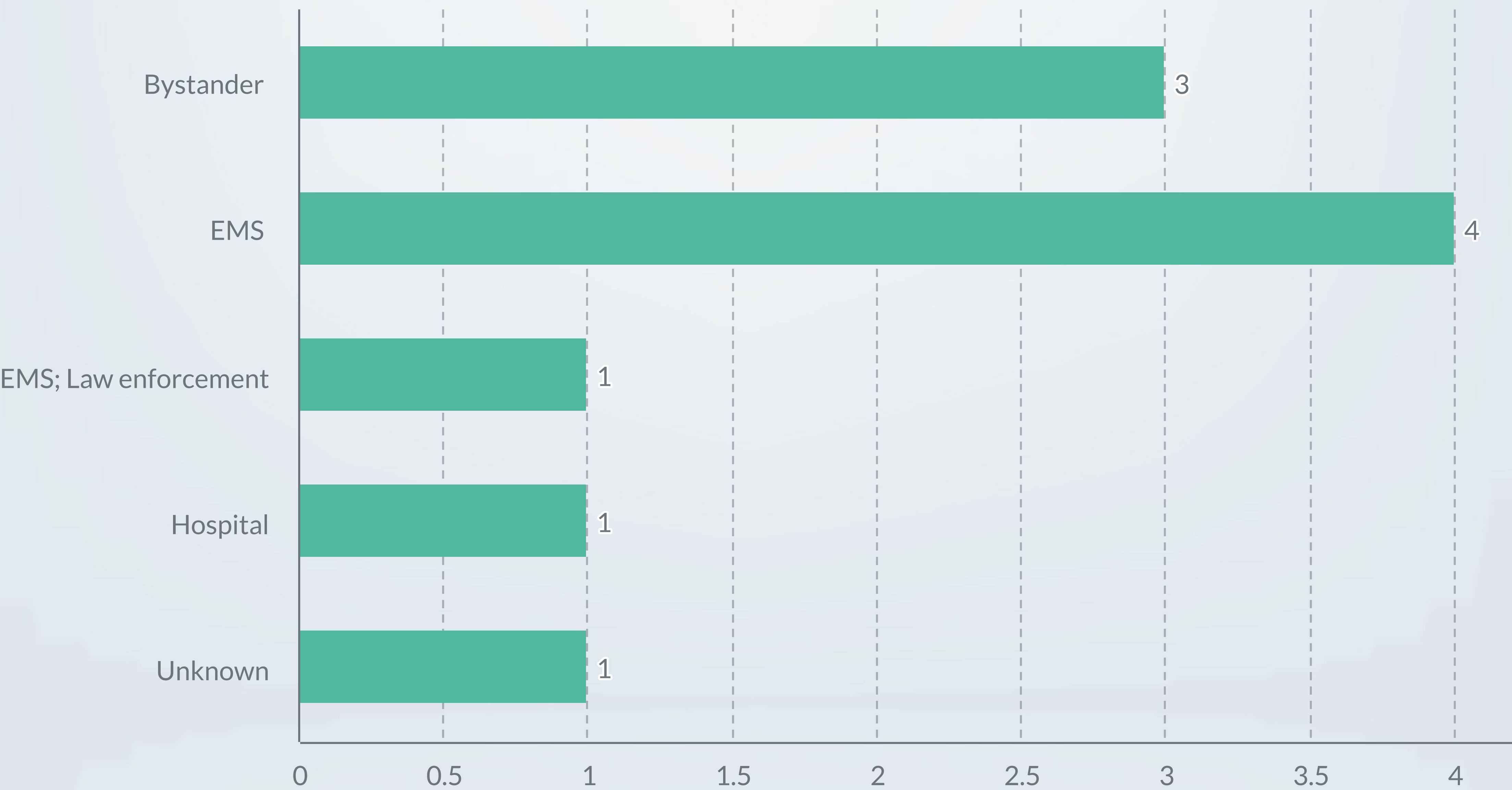
NALOXONE ADMINISTRATION STATUS



HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED



WHO ADMINISTERED NALOXONE?



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Death Scene Findings



17%  
Were found  
by family



44%  
Died at their  
residence



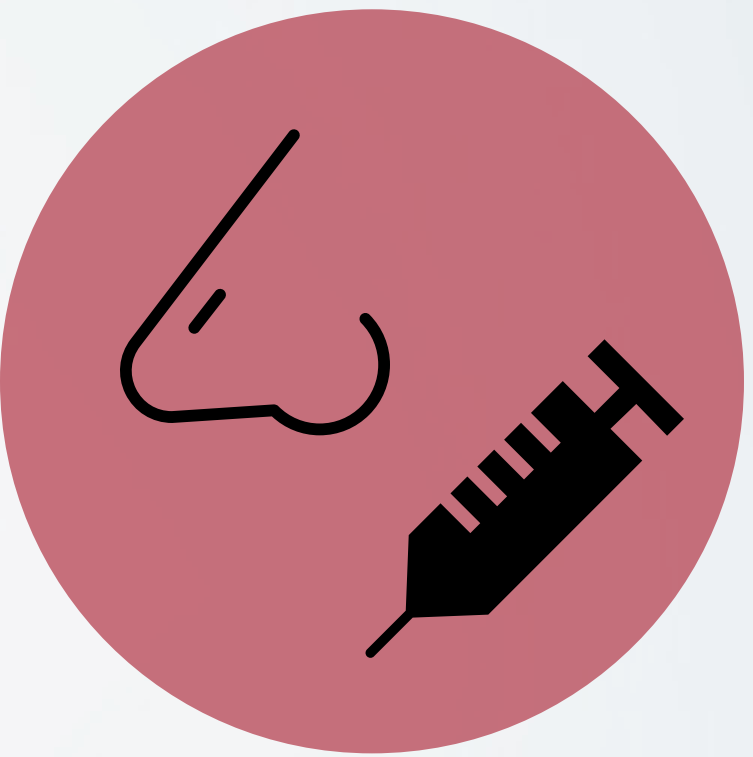
0%  
Were found  
by a minor



89%  
Used the fatal  
substance(s)  
alone



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



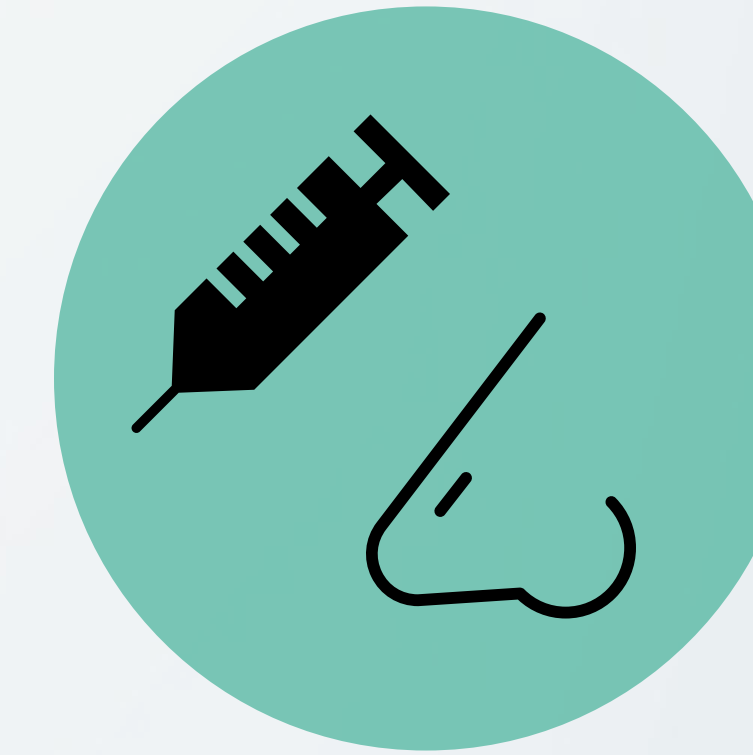
17%  
Had Narcan on  
scene and/or  
were prescribed  
Narcan



44%  
Were dead  
upon EMS  
arrival



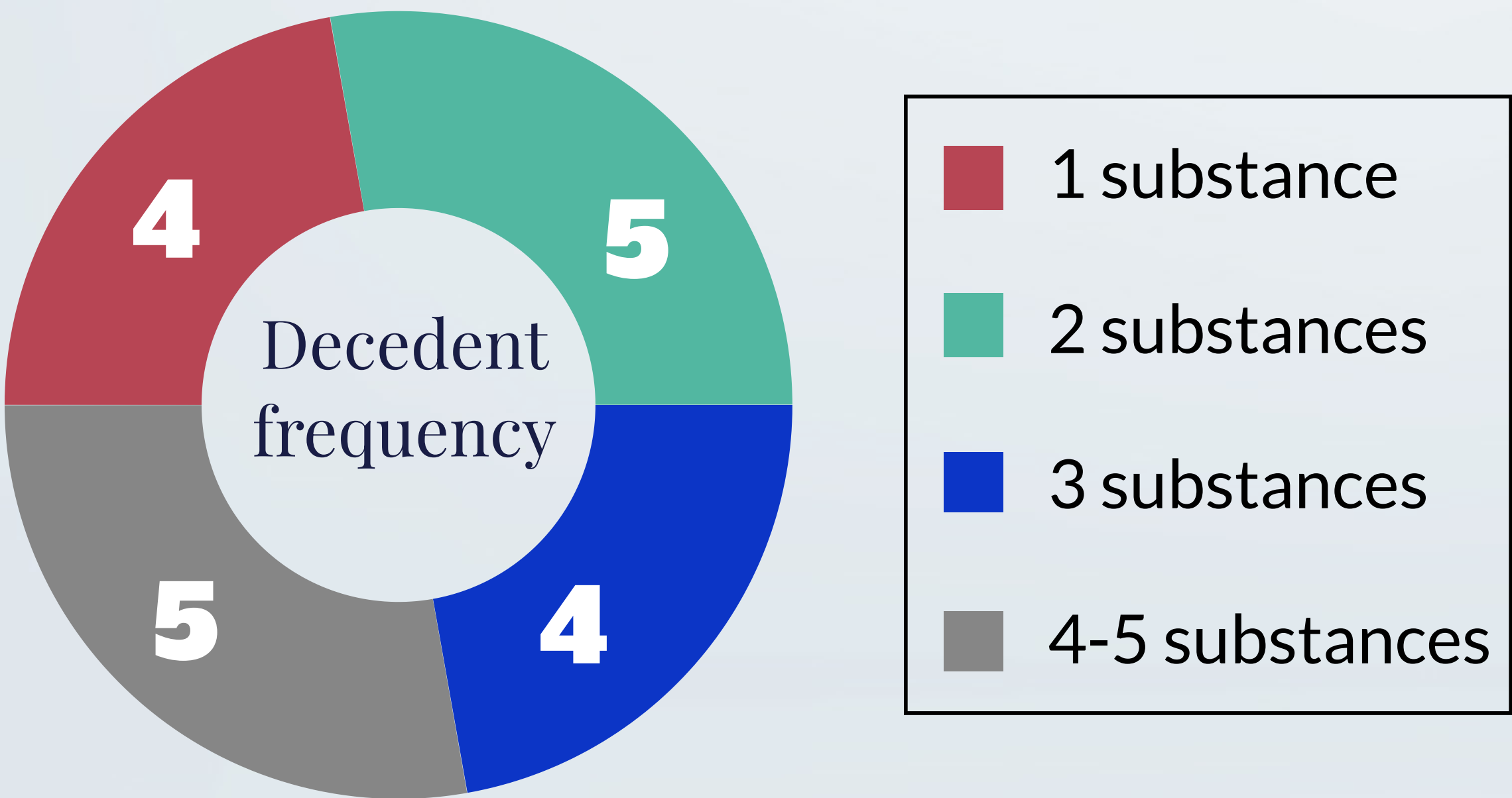
28%  
Died at the  
hospital



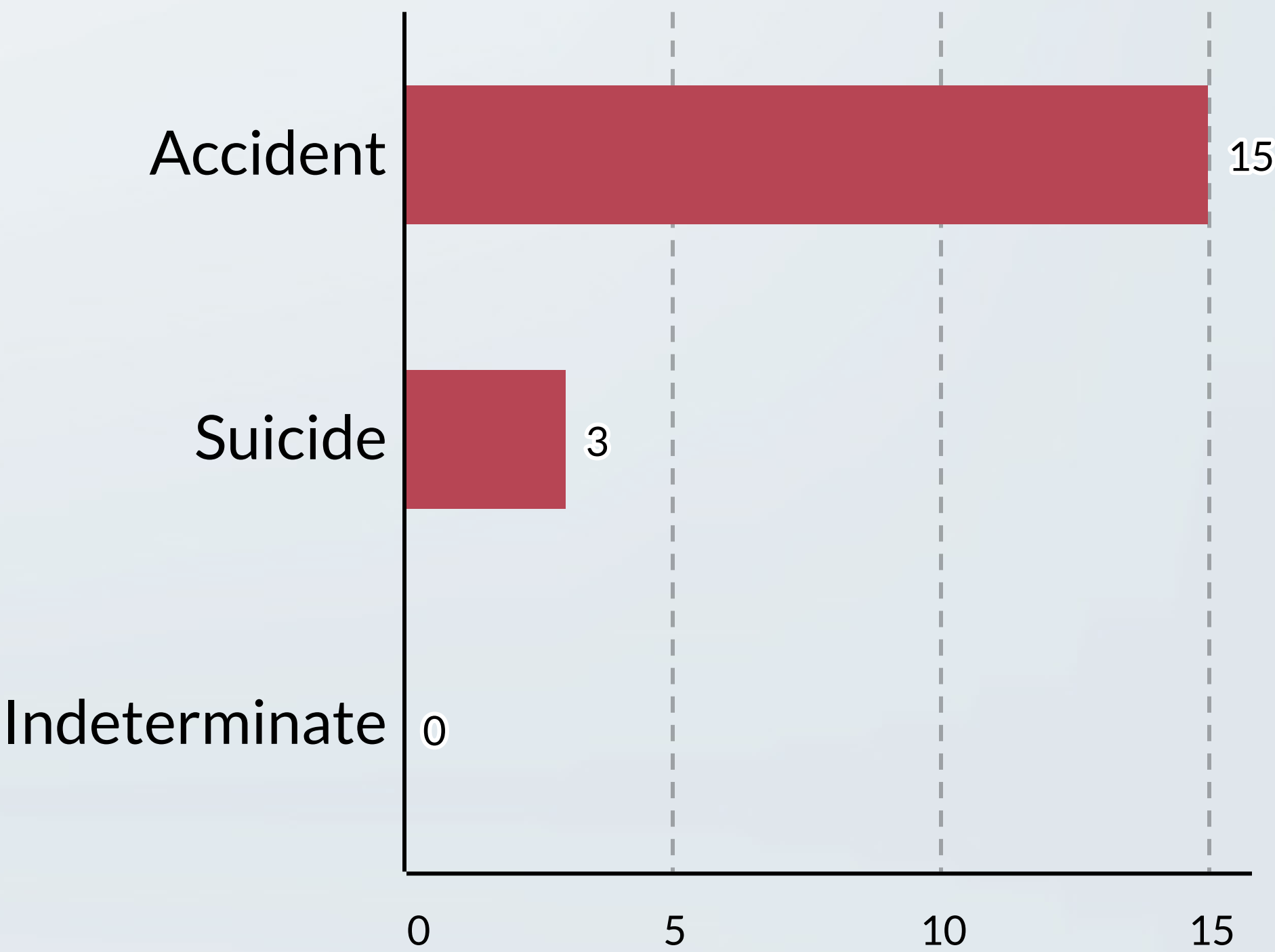
56%  
Were given  
Narcan

Autopsy and Toxicology Results

NUMBER OF SUBSTANCES  
CONTRIBUTING TO DEATH



MANNER OF DEATH

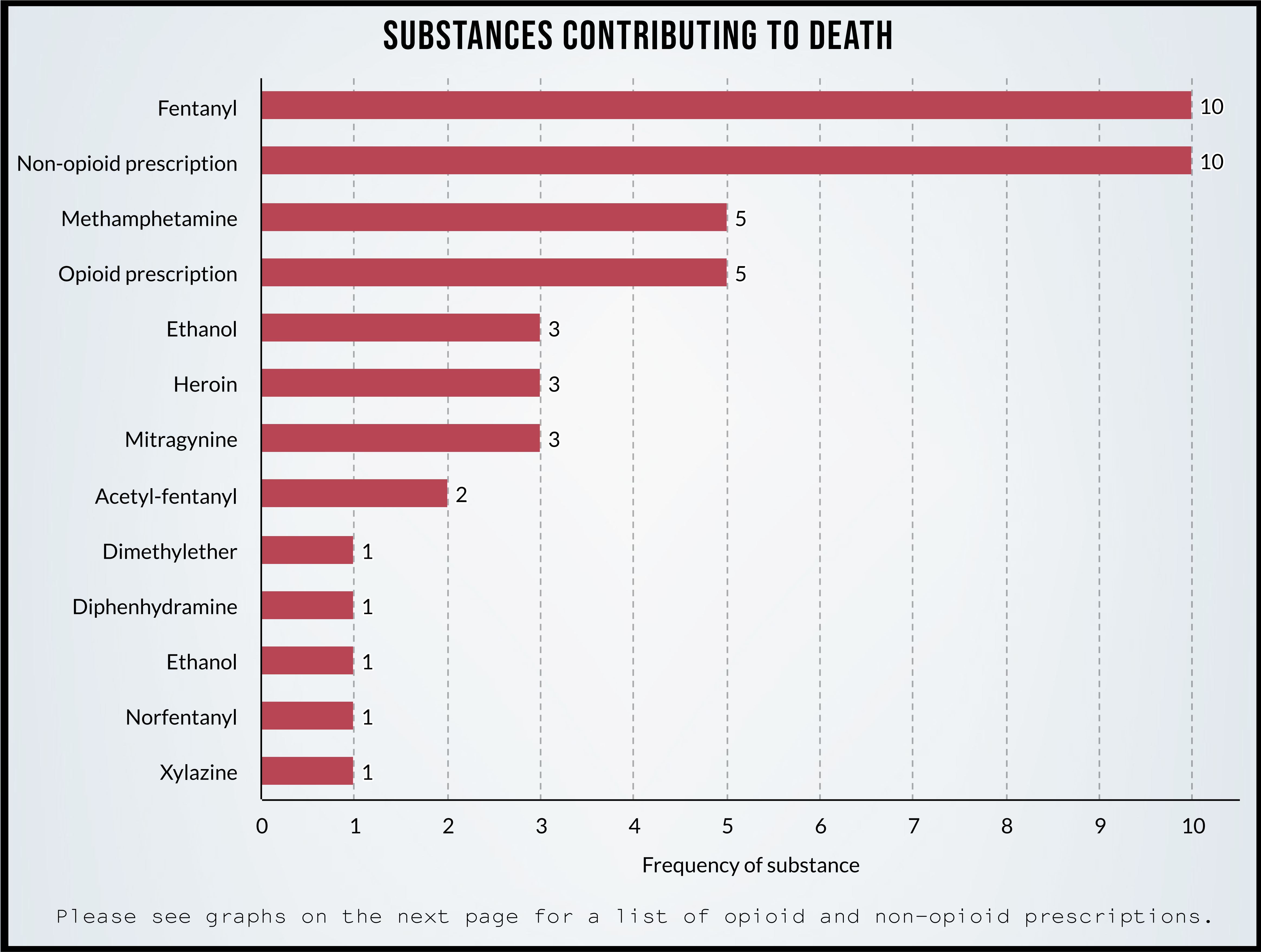




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## Substance Breakdown



### HEROIN & FENTANYL

- 3 decedents had heroin in their toxicology
- All of these decedents 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

- 4 decedents had a benzodiazepine and an opioid in their toxicology
- 0 decedents were prescribed that opioid and benzodiazepine

### METHAMPHETAMINE & OPIOIDS

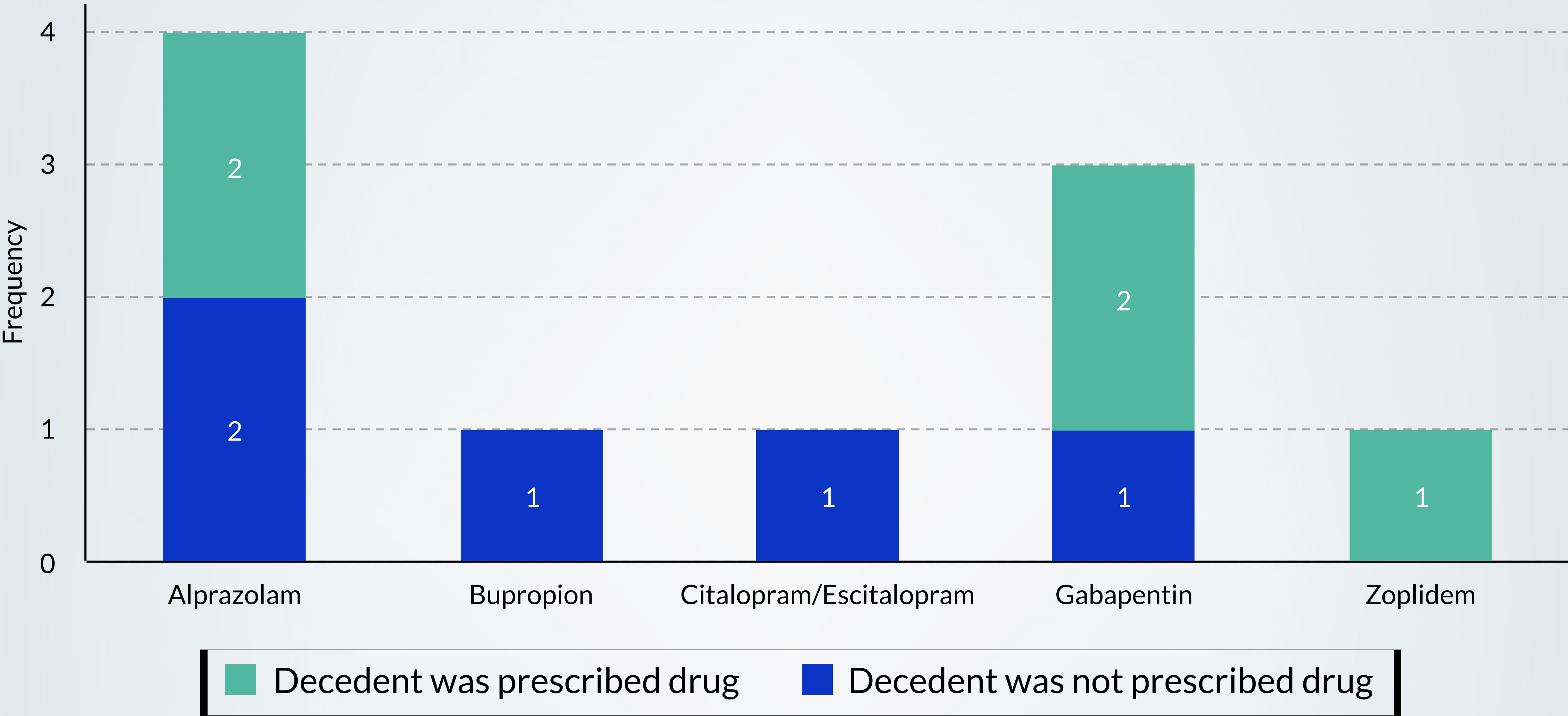
- 4 decedents had methamphetamine and opioid(s) in their toxicology
- 1 decedent had methamphetamine and heroin in their toxicology

Deaths Related to Opioids and Other Drugs

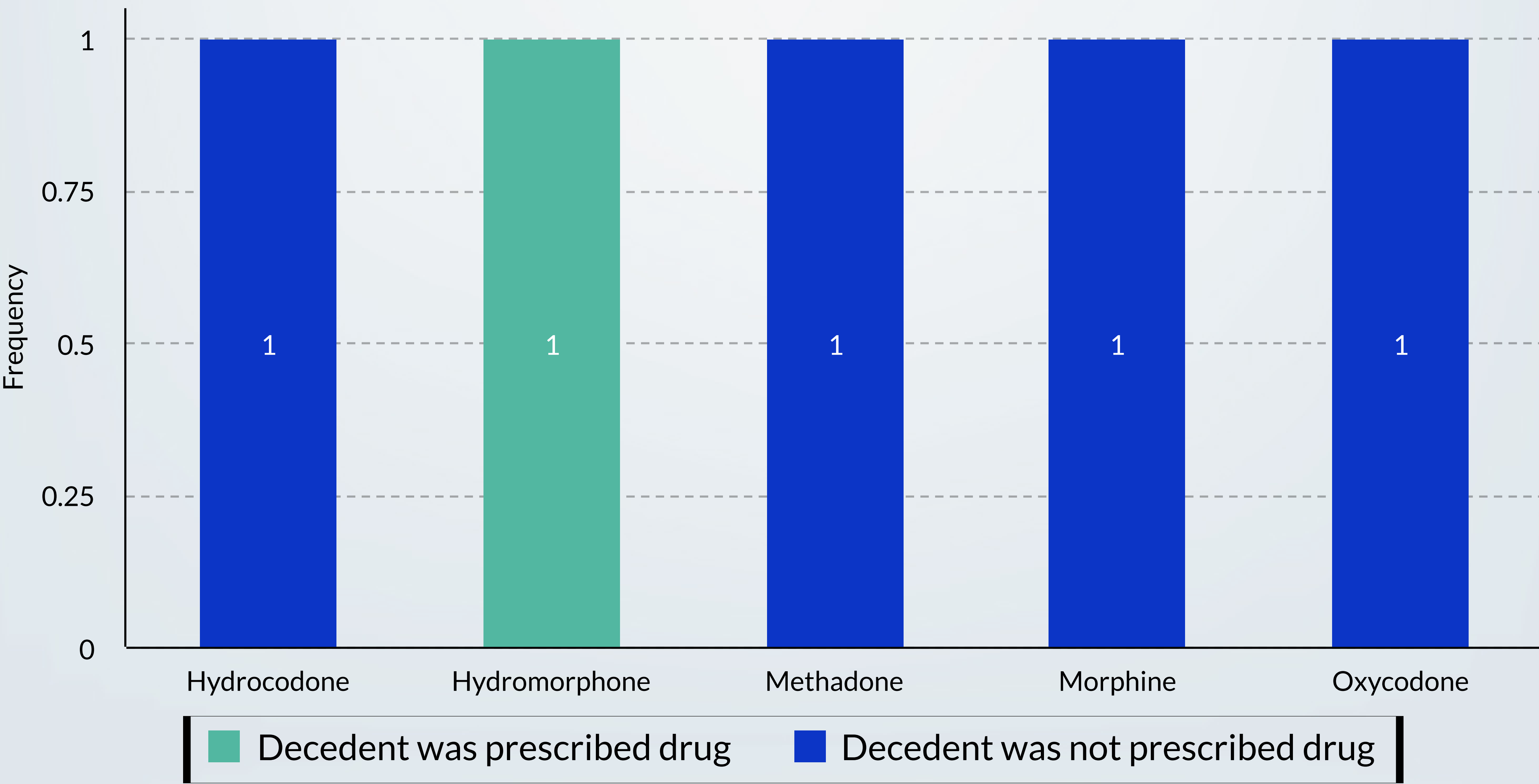
Grand Traverse

Autopsy and Toxicology Results, cont.

NON-OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



Note: Of the 10 decedents with fentanyl present in their toxicology, 0 were prescribed fentanyl