

2020 ANNUAL REPORT

Deaths related to opioids and other drugs

Barry

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

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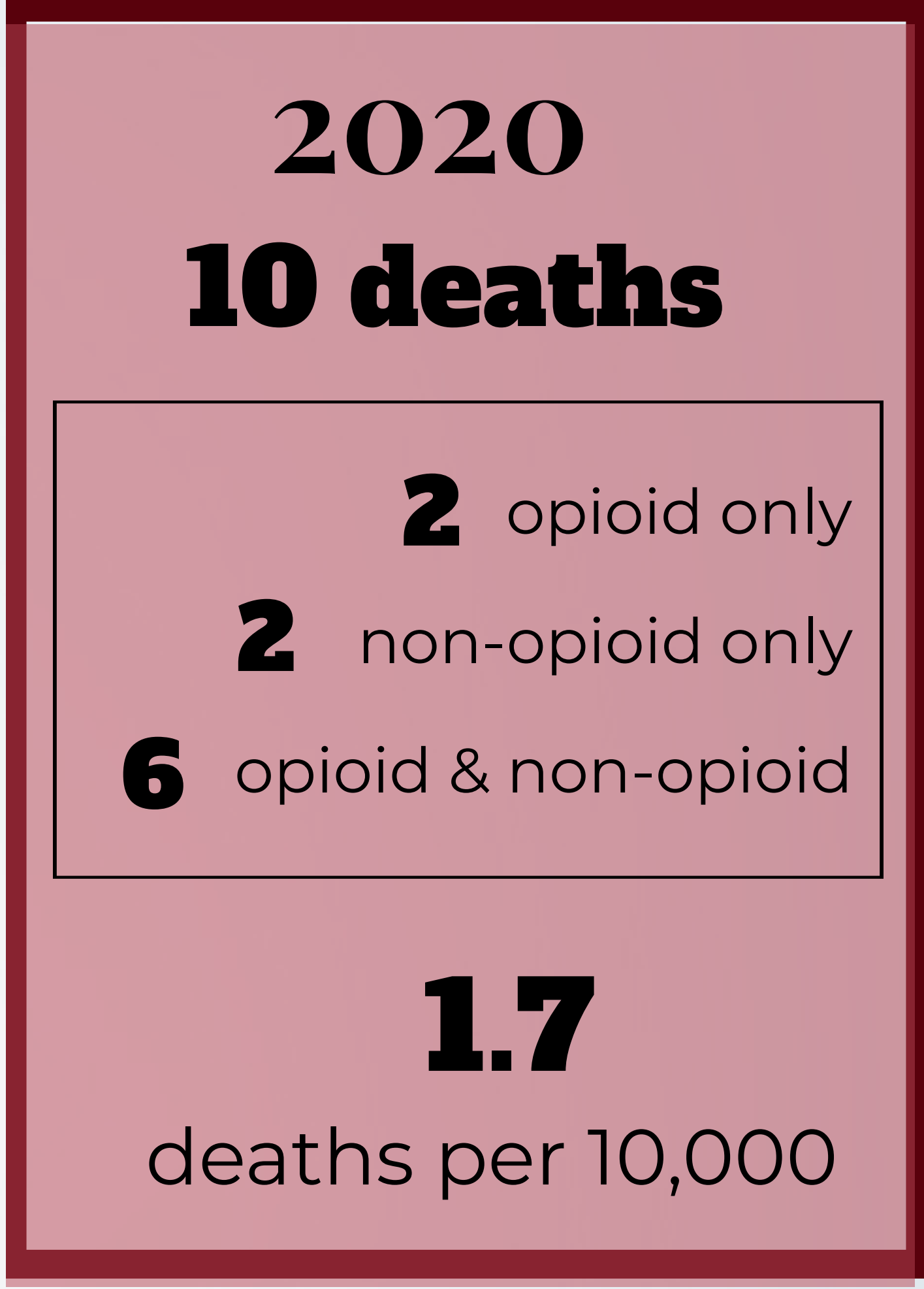
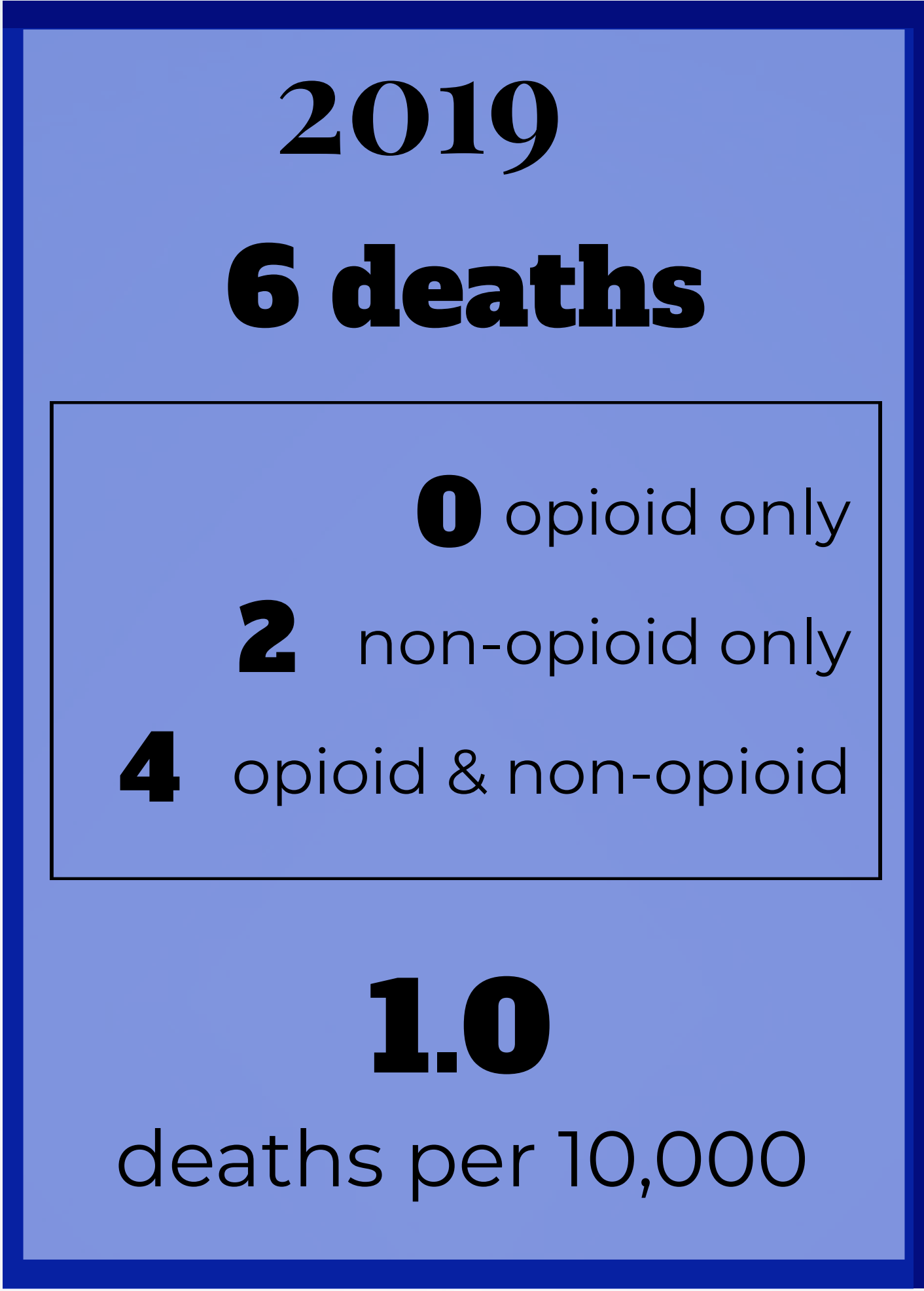
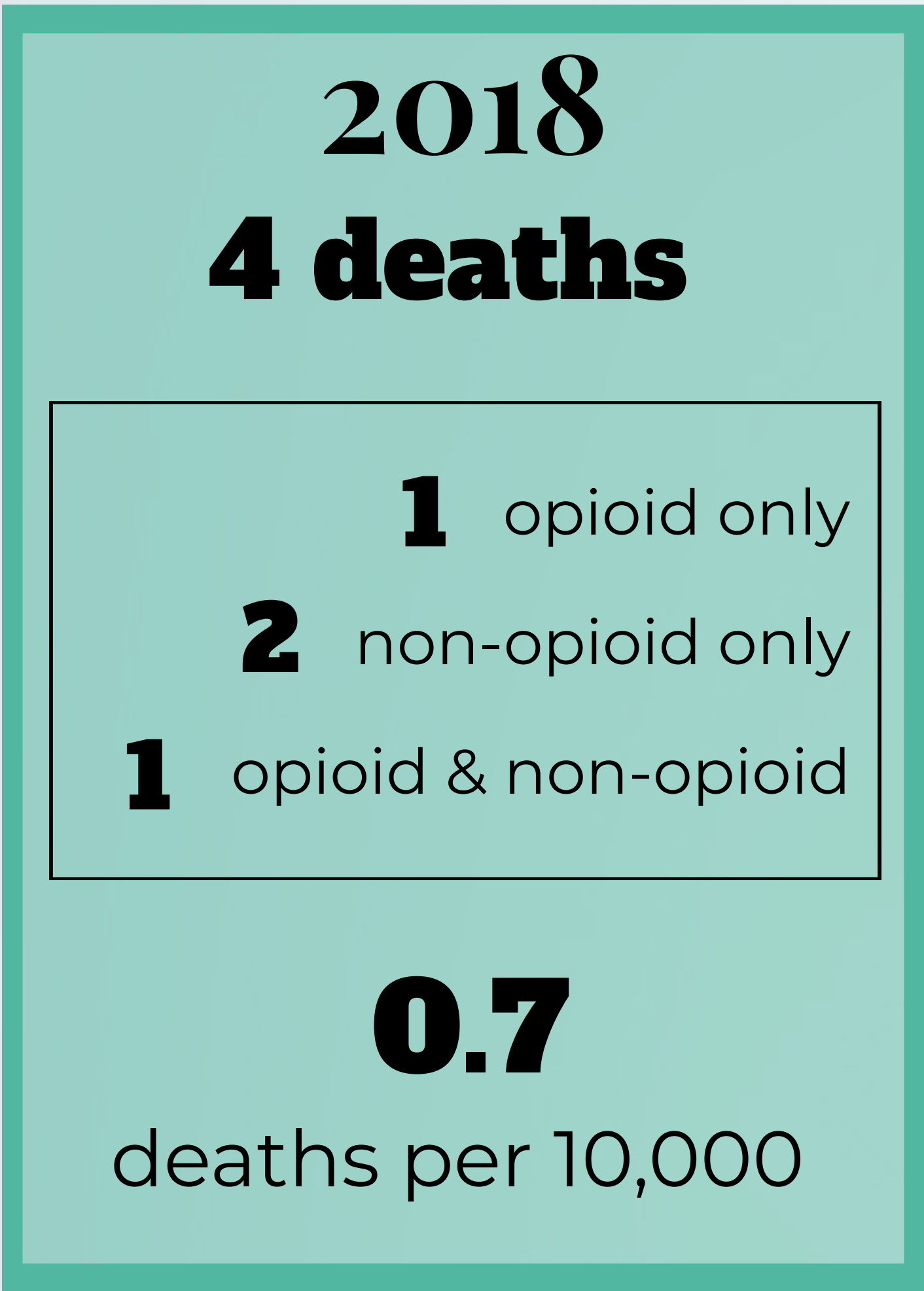
All drug related deaths

Age	Race	Sex	Death Certificate: Substances Contributing to Death	Injury Zip Code
25	W	M	Pt. I: Fentanyl, hydrocodone, alprazolam	49344
27	W	F	Pt. I: Methamphetamine, fentanyl	49058
30	W	M	Pt. I: Heroin, methamphetamine, fentanyl, acetyl-fentanyl	49058
35	W	M	Pt. I: Heroin, fentanyl, mitragynine, ethanol	49017
36	W	F	Pt. I: Fentanyl, flualprazolam, diphenhydramine	49333
40	W	F	Pt. I: Alprazolam, hydrocodone, tramadol, trazodone	49058
41	W	M	Pt. I: Fentanyl	49017
51	W	M	Pt. I: Methamphetamine	Unknown
53	W	M	Pt. I: Methadone	49348
53	W	F	Pt. I: Methamphetamine	49333

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Total deaths due to drugs: 2018, 2019, 2020



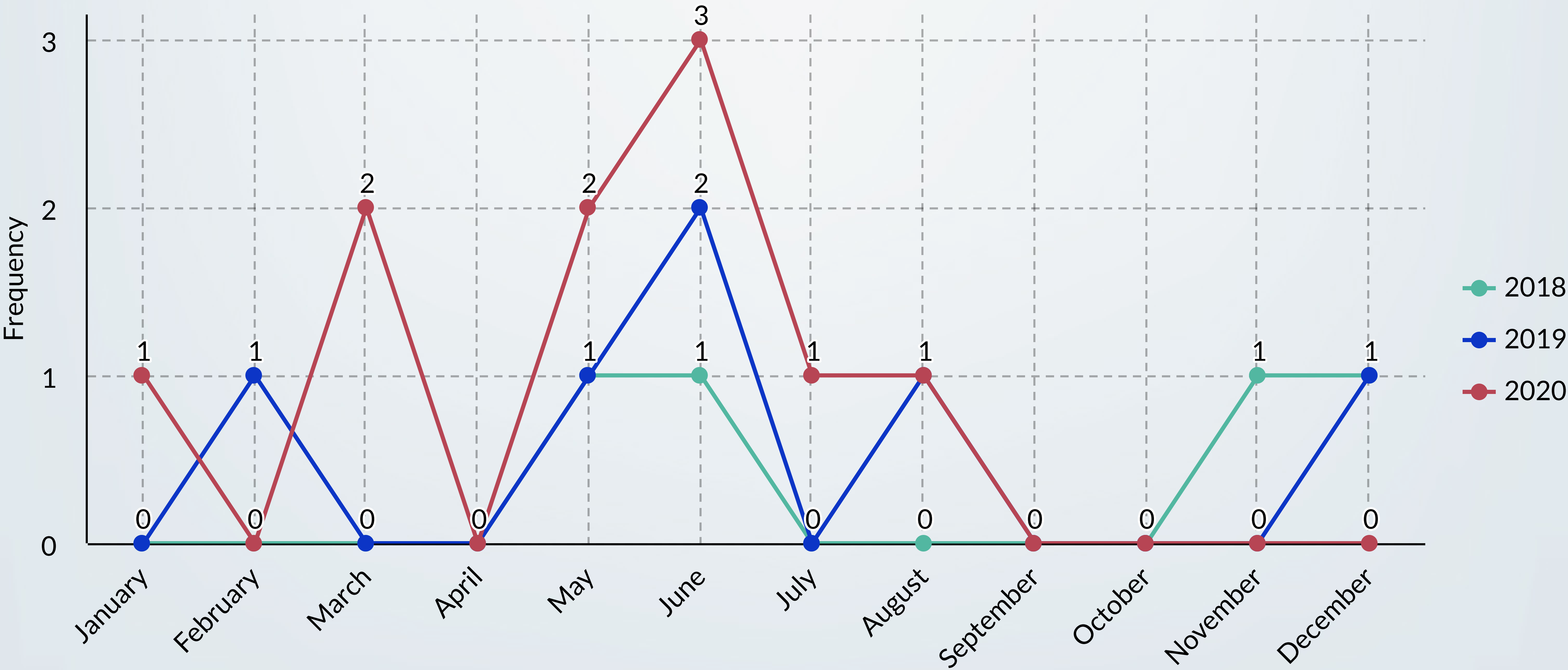
Number of nonfatal overdoses among ED discharges, 2020

70

11.8

Nonfatal overdoses per 10,000

Number of all drug-related deaths by month and year



Percent increase from 2018 to 2019

50%

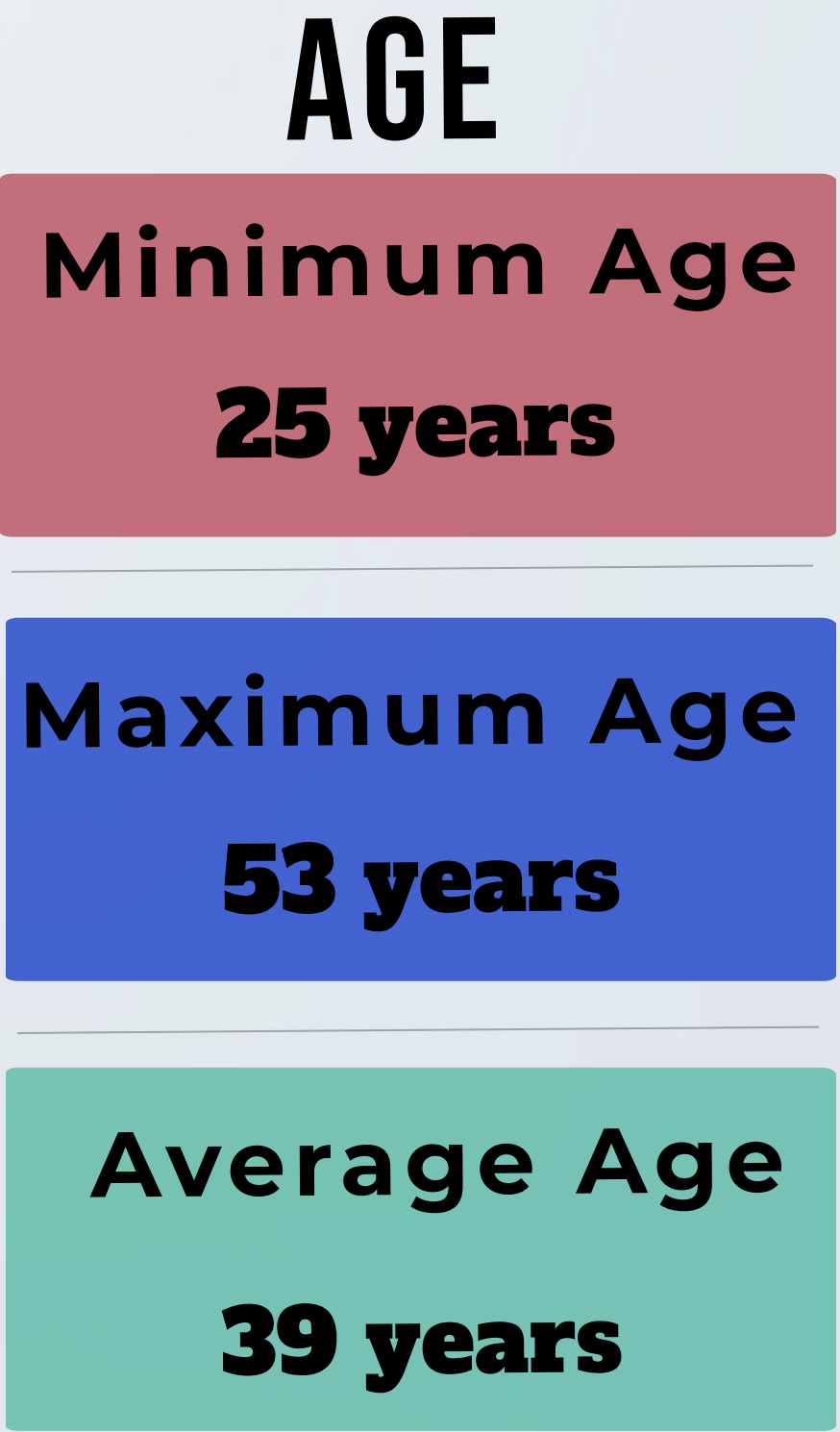
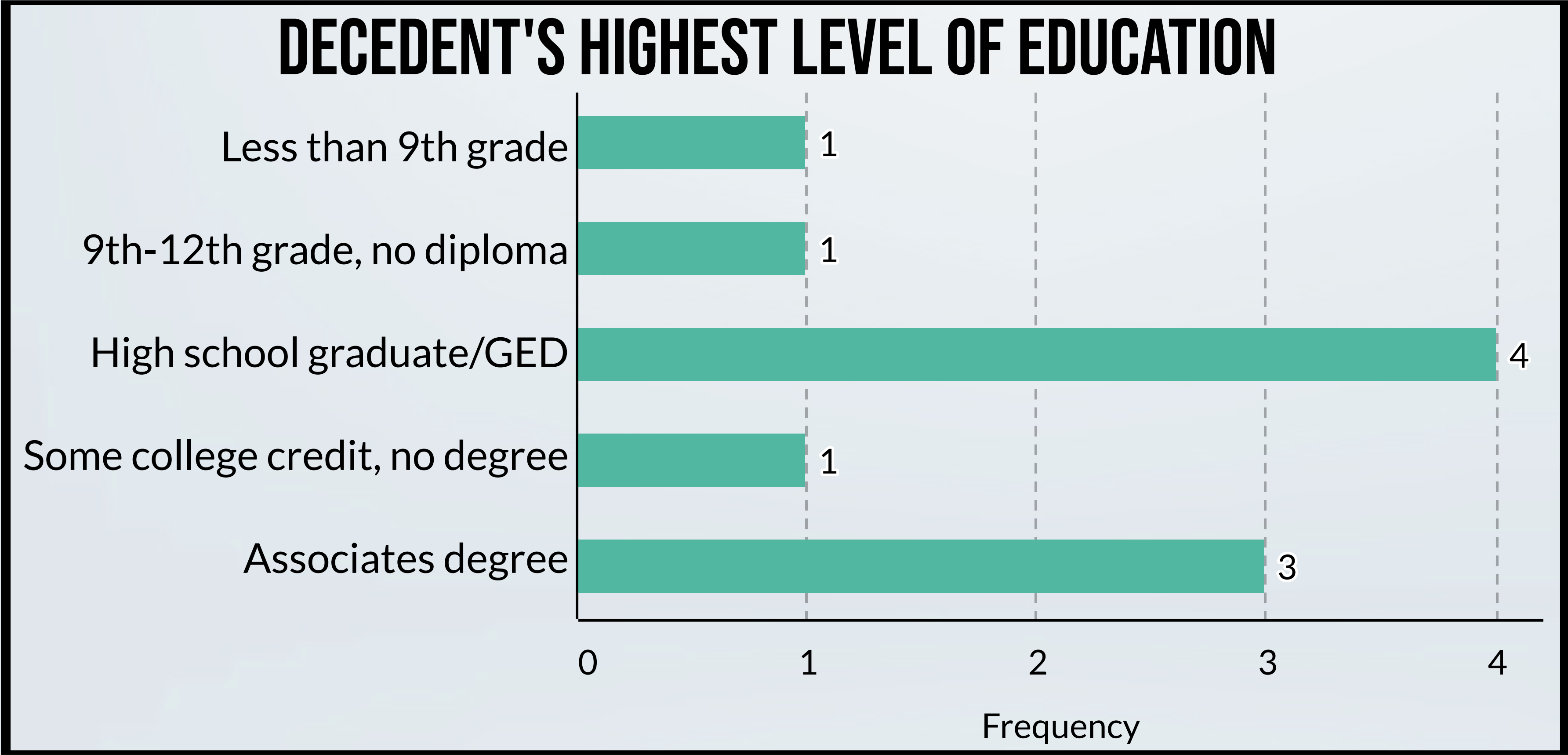
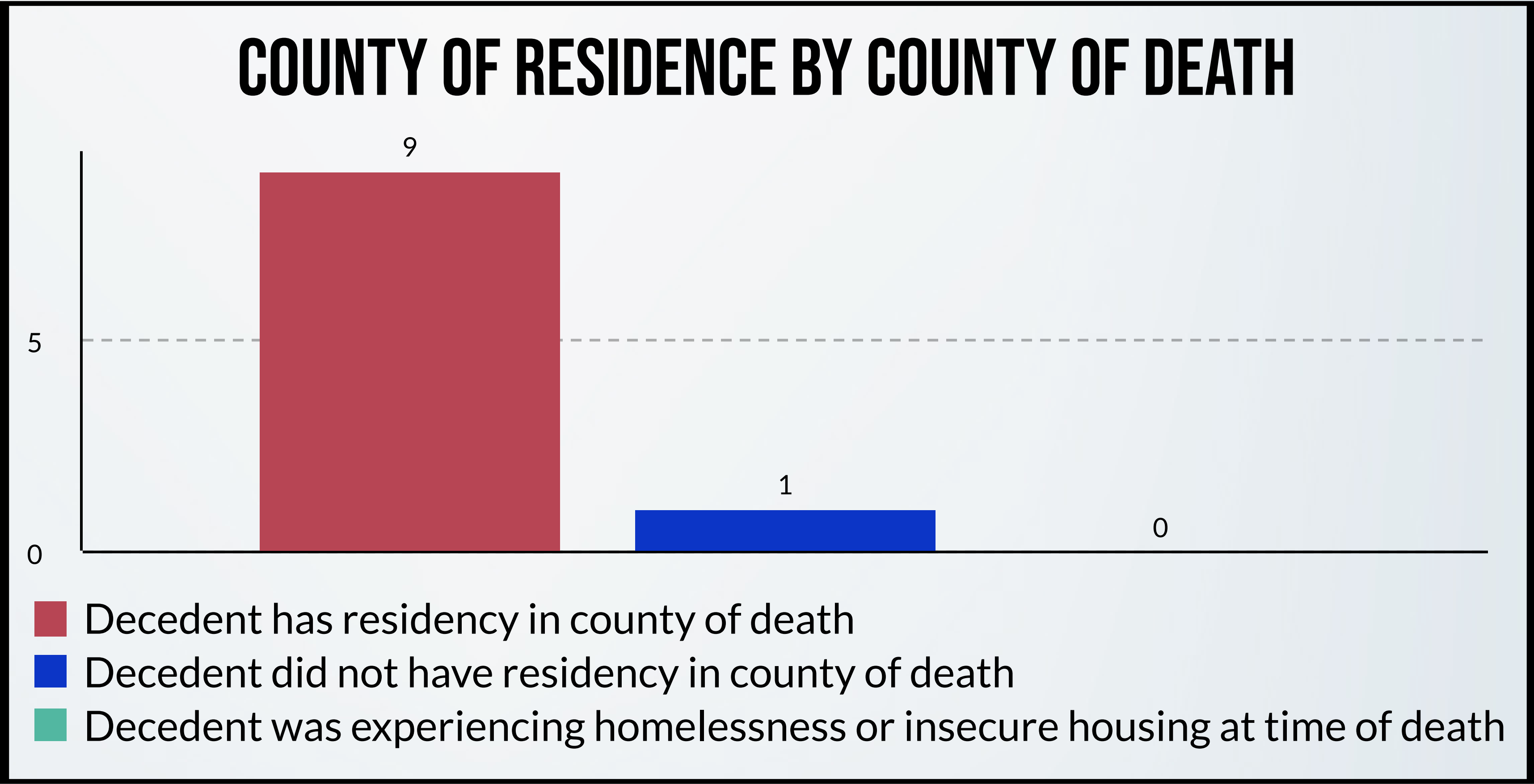
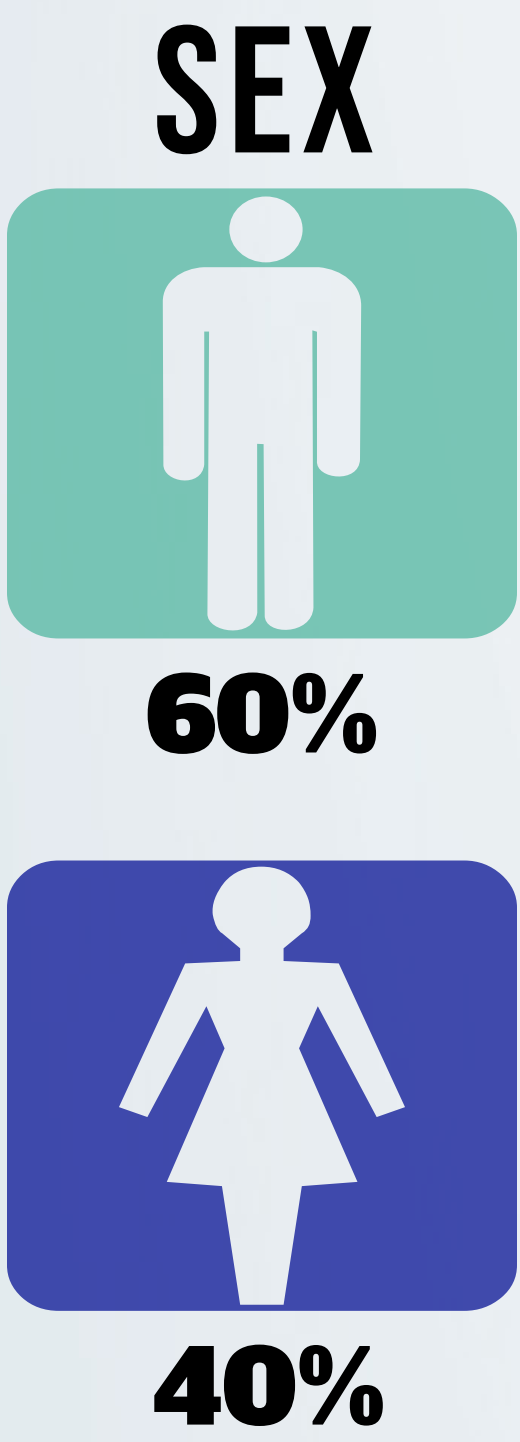
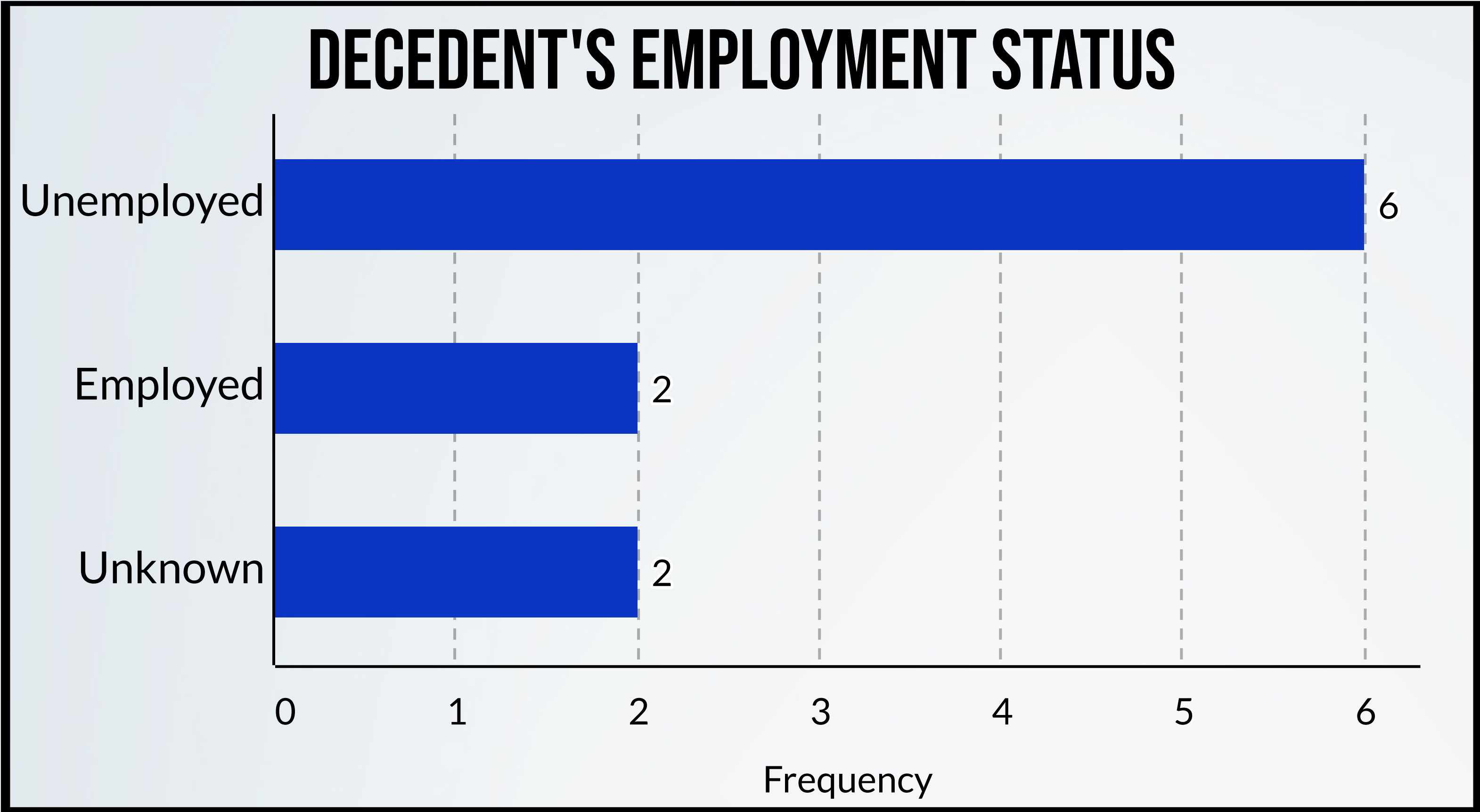
Percent increase from 2019 to 2020

67%

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Demographics



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Health Factors

MOST PREVALENT AILMENTS*

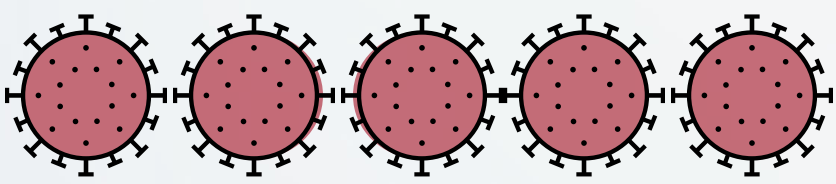
Heart (20%)**

Hypertension (20%)

Chronic pain (20%)

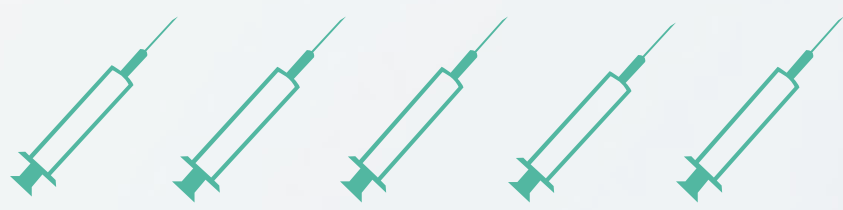
*Decedents may be represented in more than one category. Only illnesses with official diagnosis are included.

**Heart includes MI, CABG, CAD, AFib, and heart failure



0 decedents were known to be **Hepatitis C** positive

NA of these decedents were known to use **substances intravenously**



Decedent used tobacco

100%+



Decedent drank alcohol

70%+

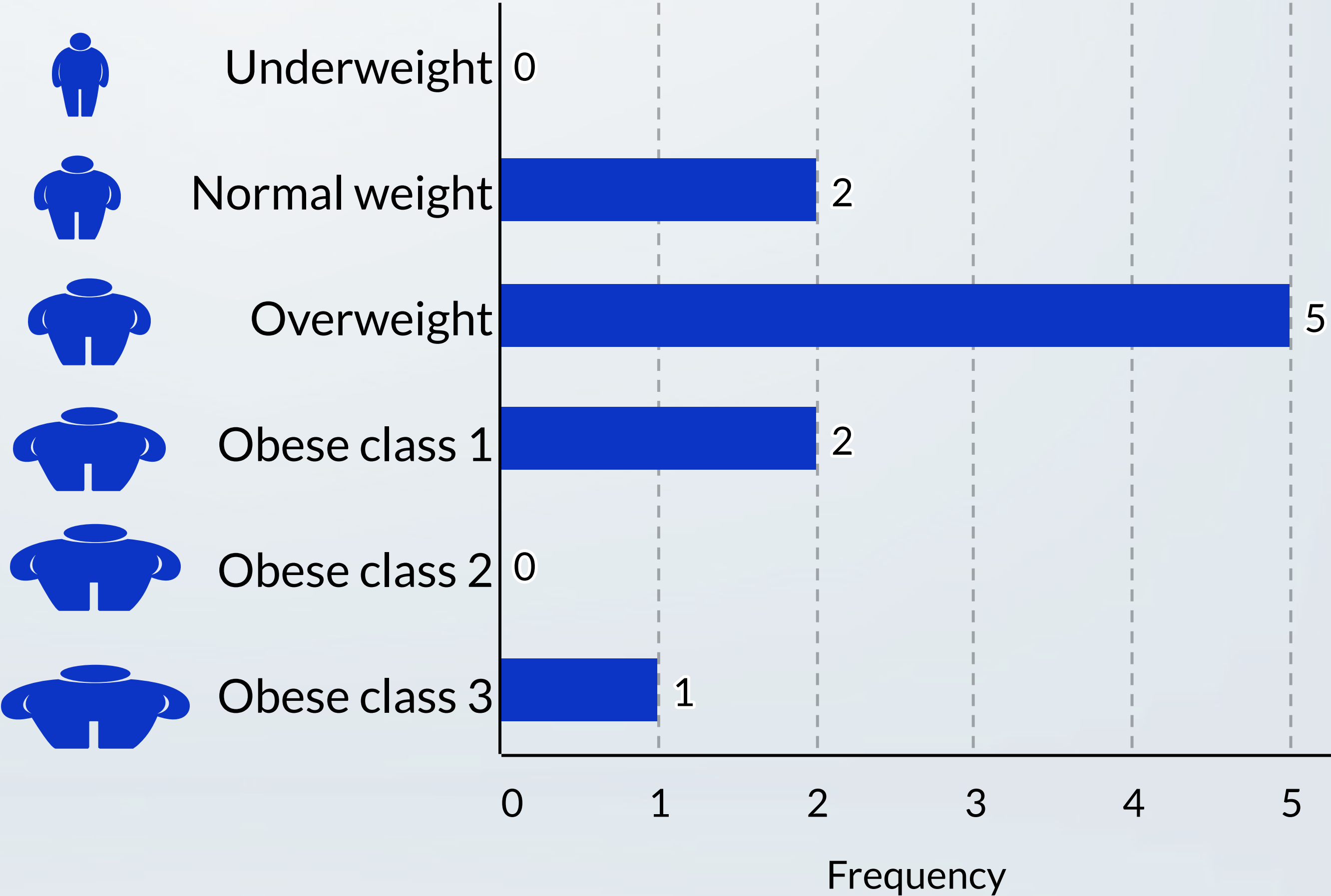


Decedent had a PCP

60%



BODY MASS INDEX (BMI)



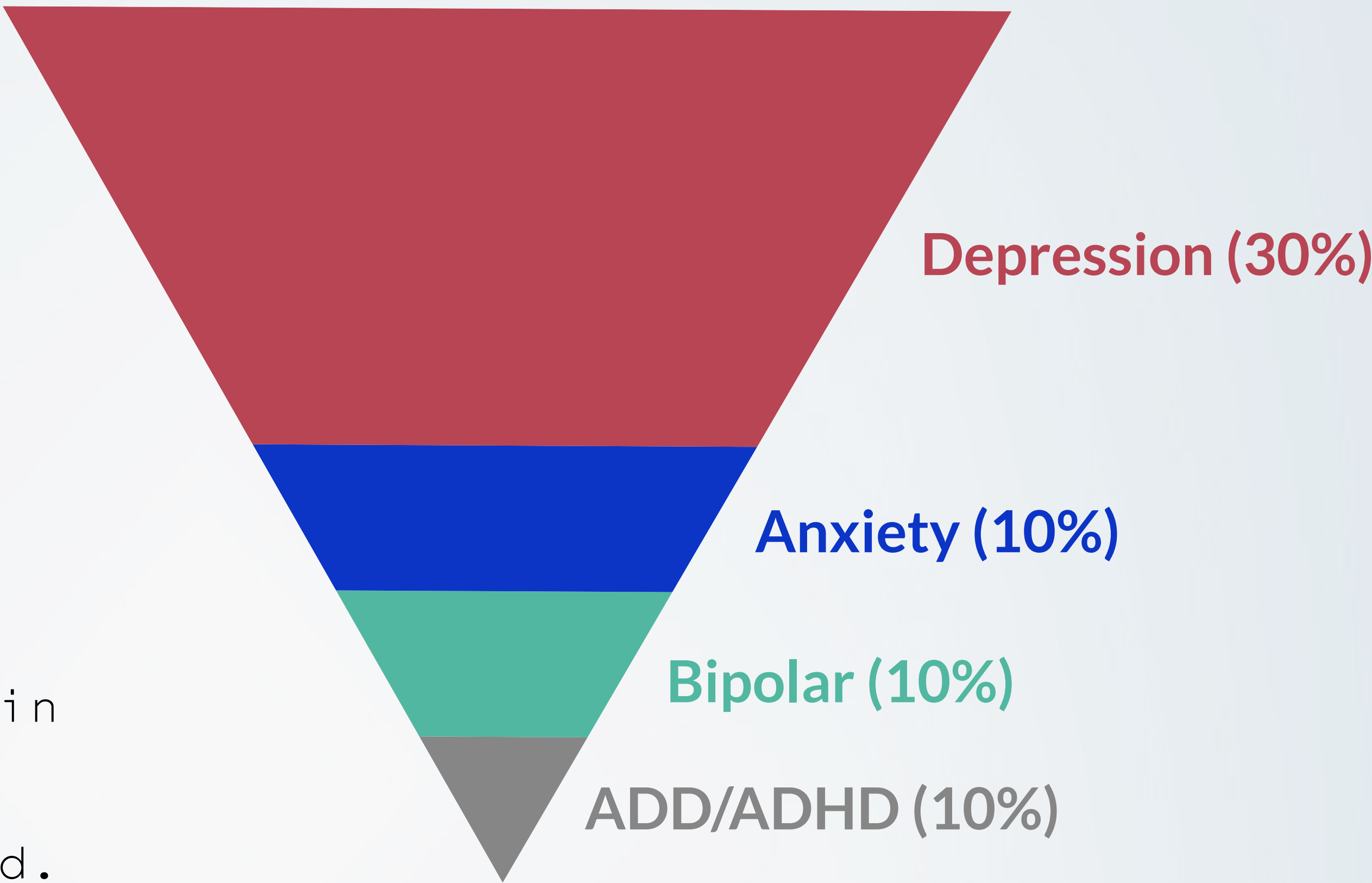
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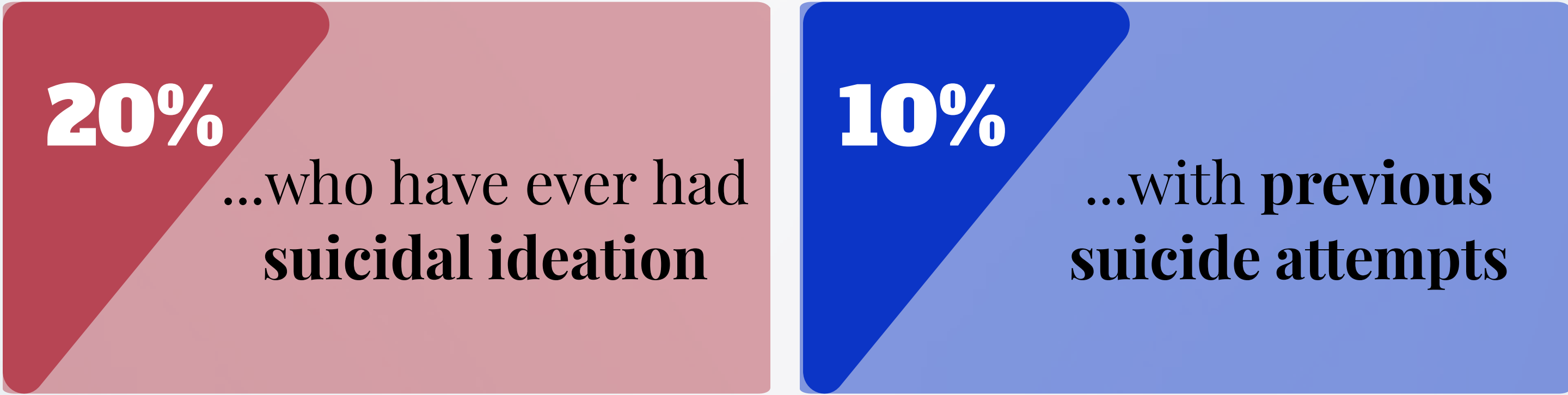
Mental Health Factors

MOST
PREVALENT
MENTAL ILLNESSES*

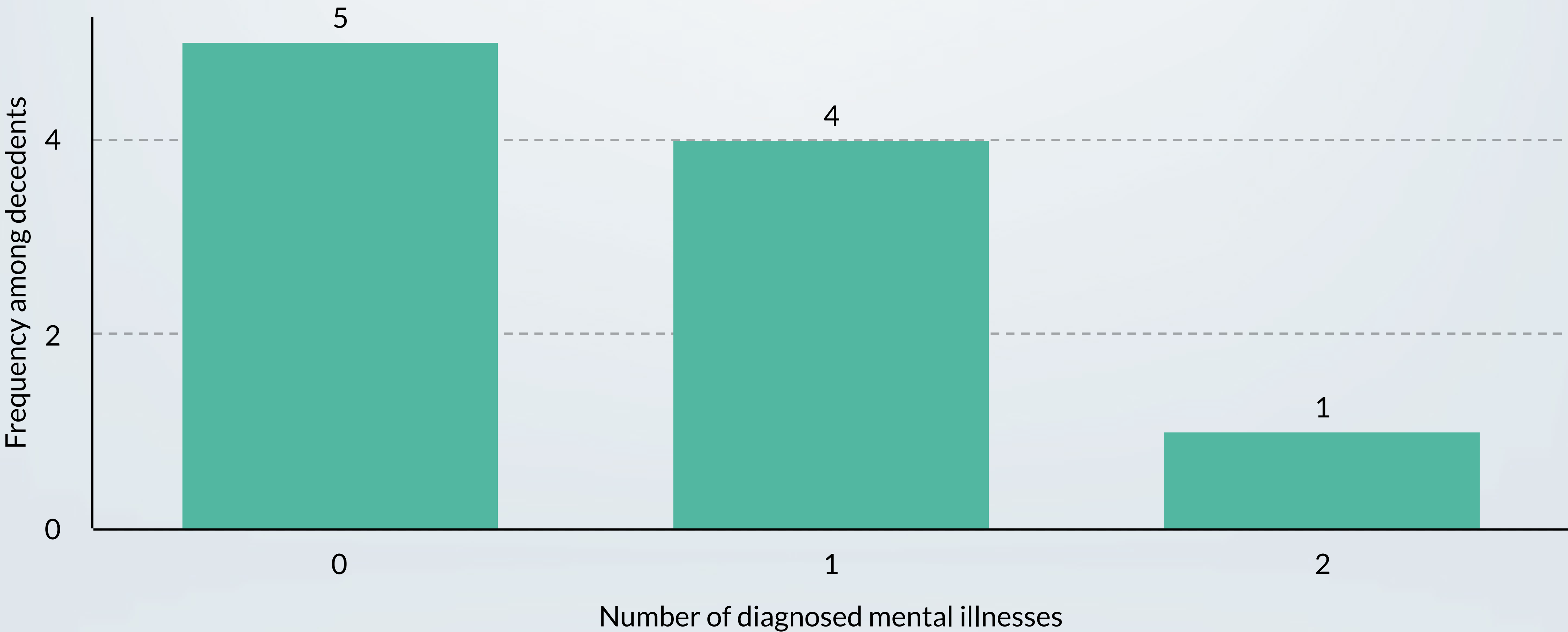
*Decedents may be represented in more than one category. Only mental illnesses with official diagnosis are included.



PERCENTAGE OF DECEDENTS...



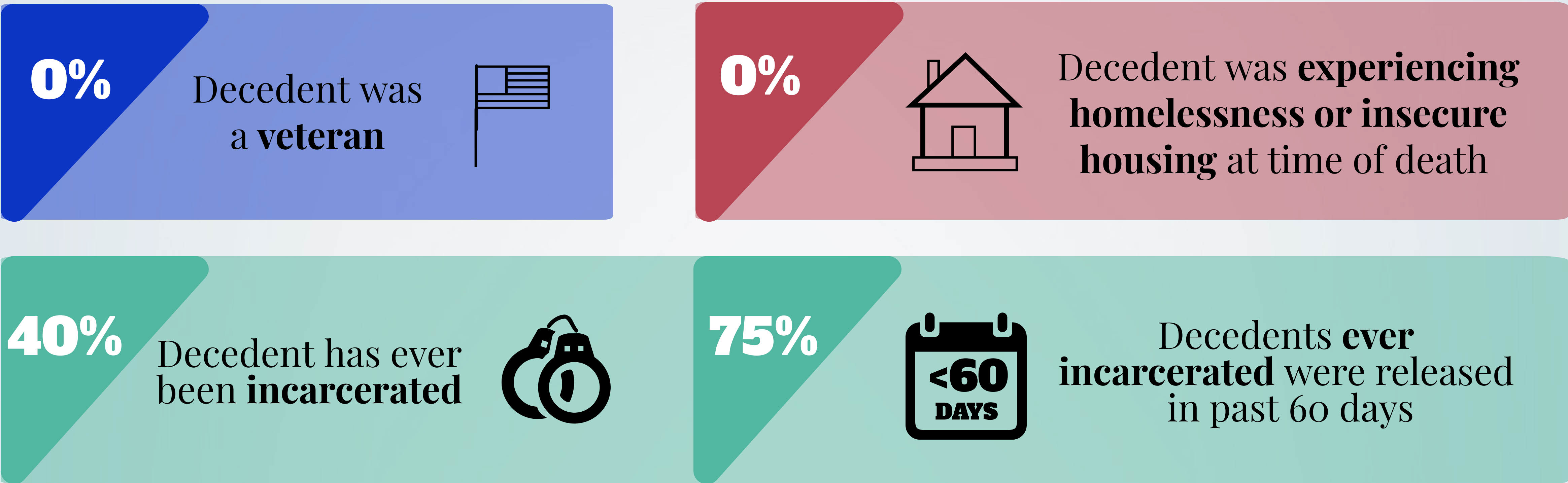
NUMBER DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS



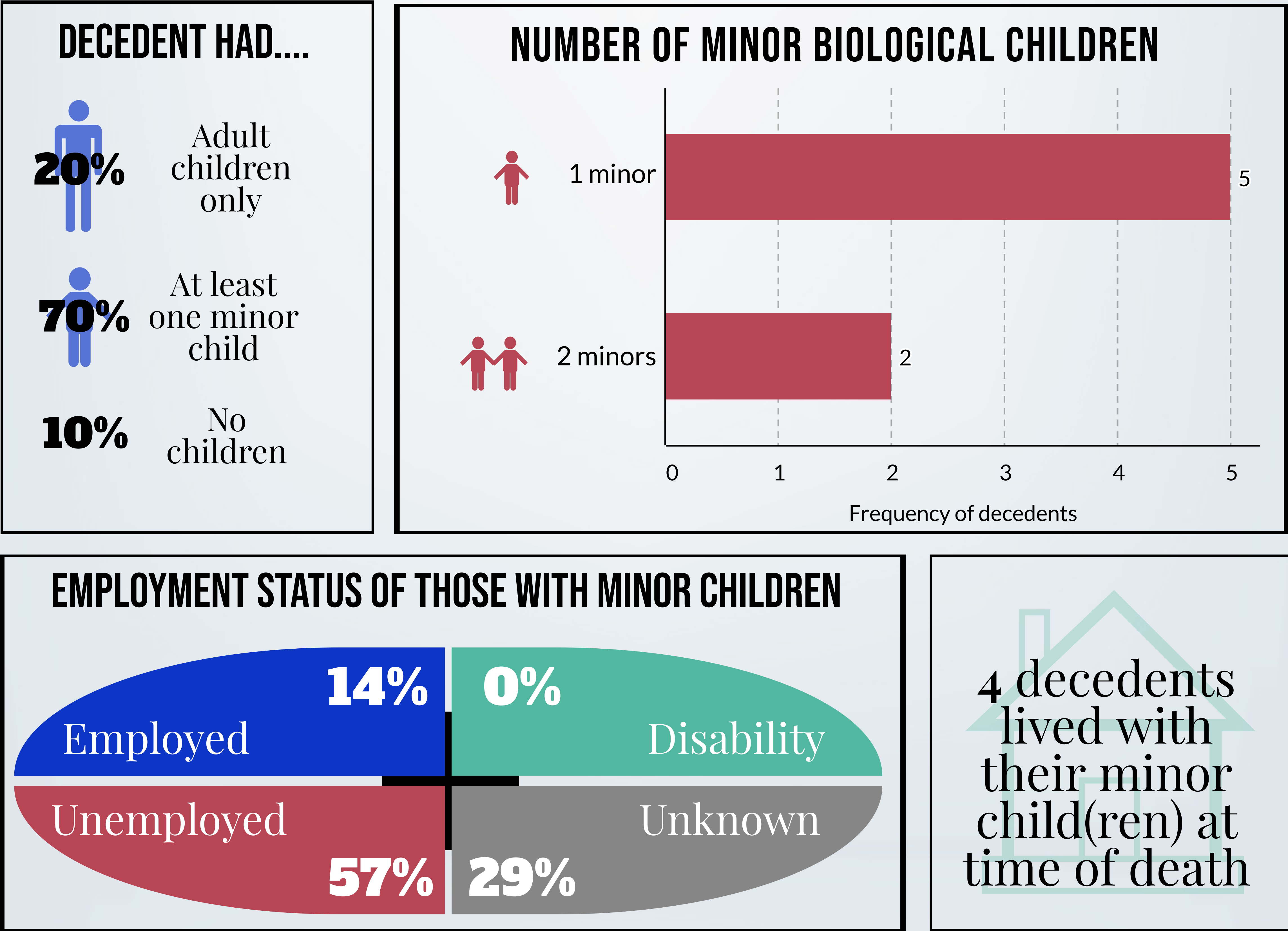
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Social Factors



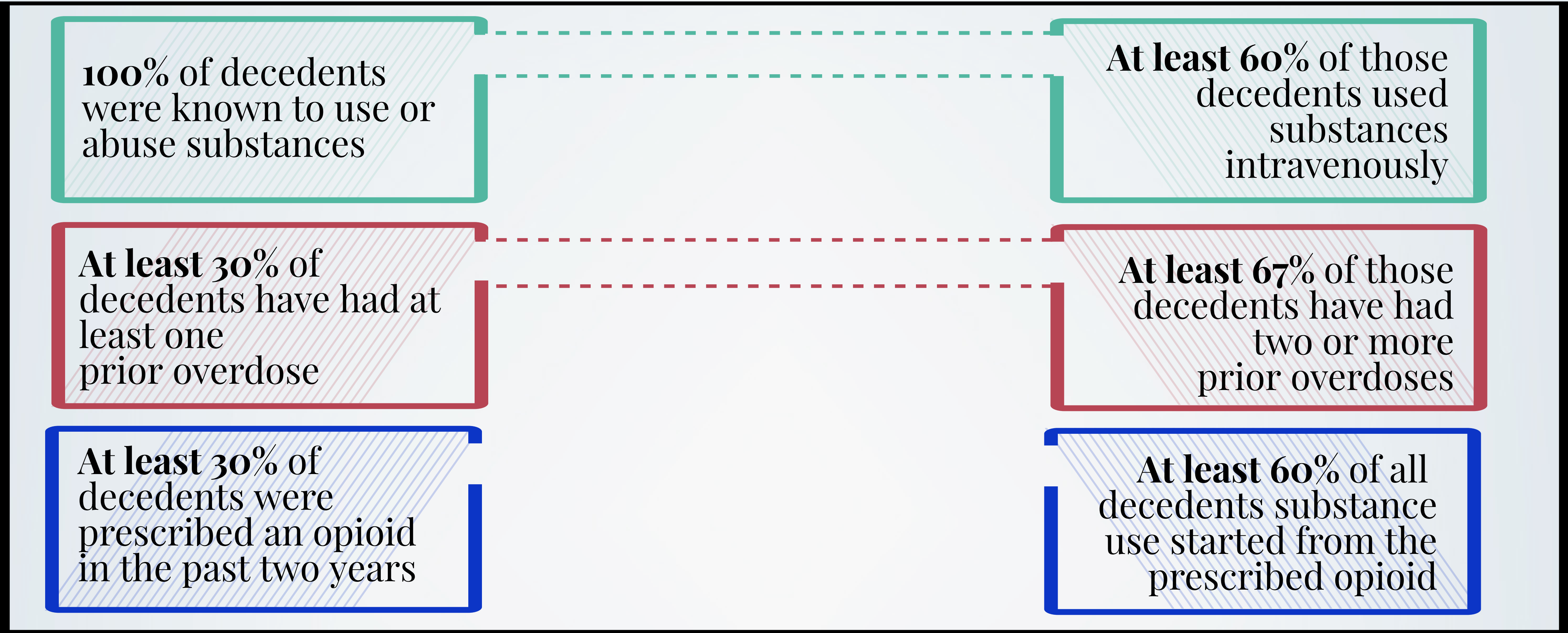
Children



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Substance Use History



RECOVERY HISTORY (N=10*)

30% Decedent has been to a substance rehabilitation clinic at least one time

0% Decedent was currently receiving or has received a form of medication-assisted treatment (MAT) in the past two years

50% Decedent was recently substance free in the past three weeks

SUSPECTED REASONS FOR RELAPSE*

40% Left jail/rehab

40% Life stress**

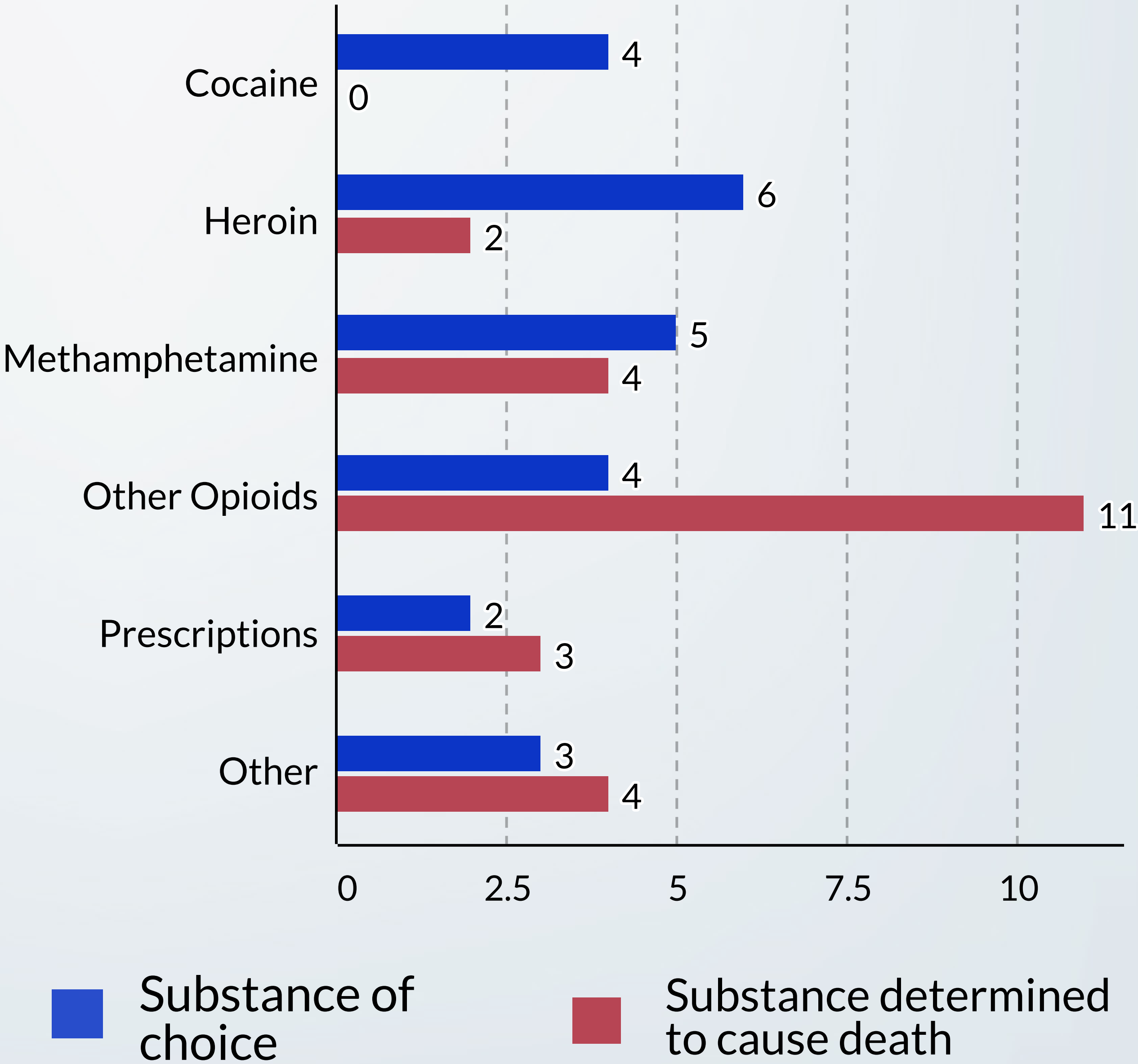
20% Unknown

*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 the death of someone close to decedent.

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.

Prescriptions do not include opioids.

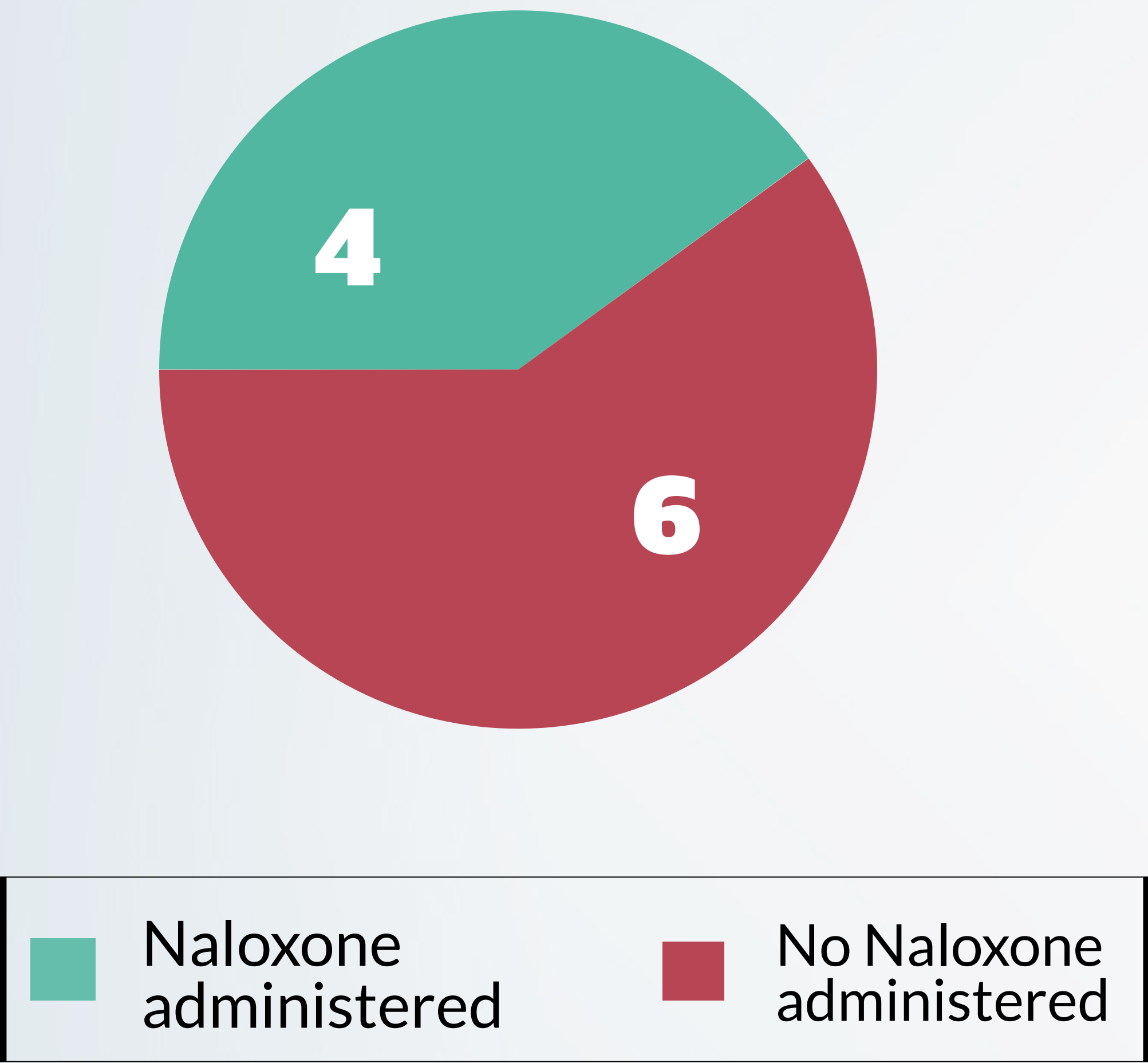
Other includes alprazolam, diphenhydramine, ethanol, flualprazolam, hallucinogens, and mitragynine.

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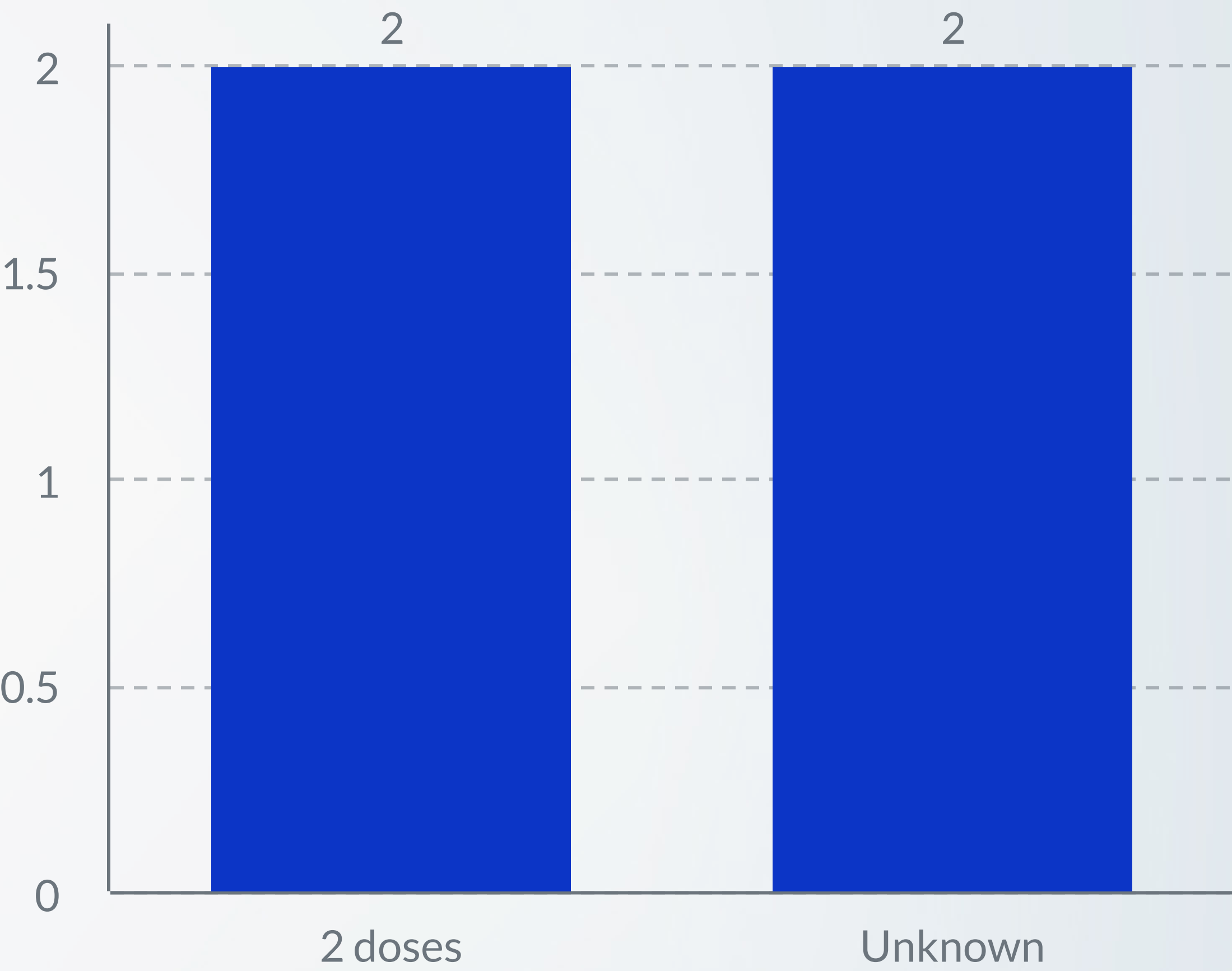
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Naloxone Administration

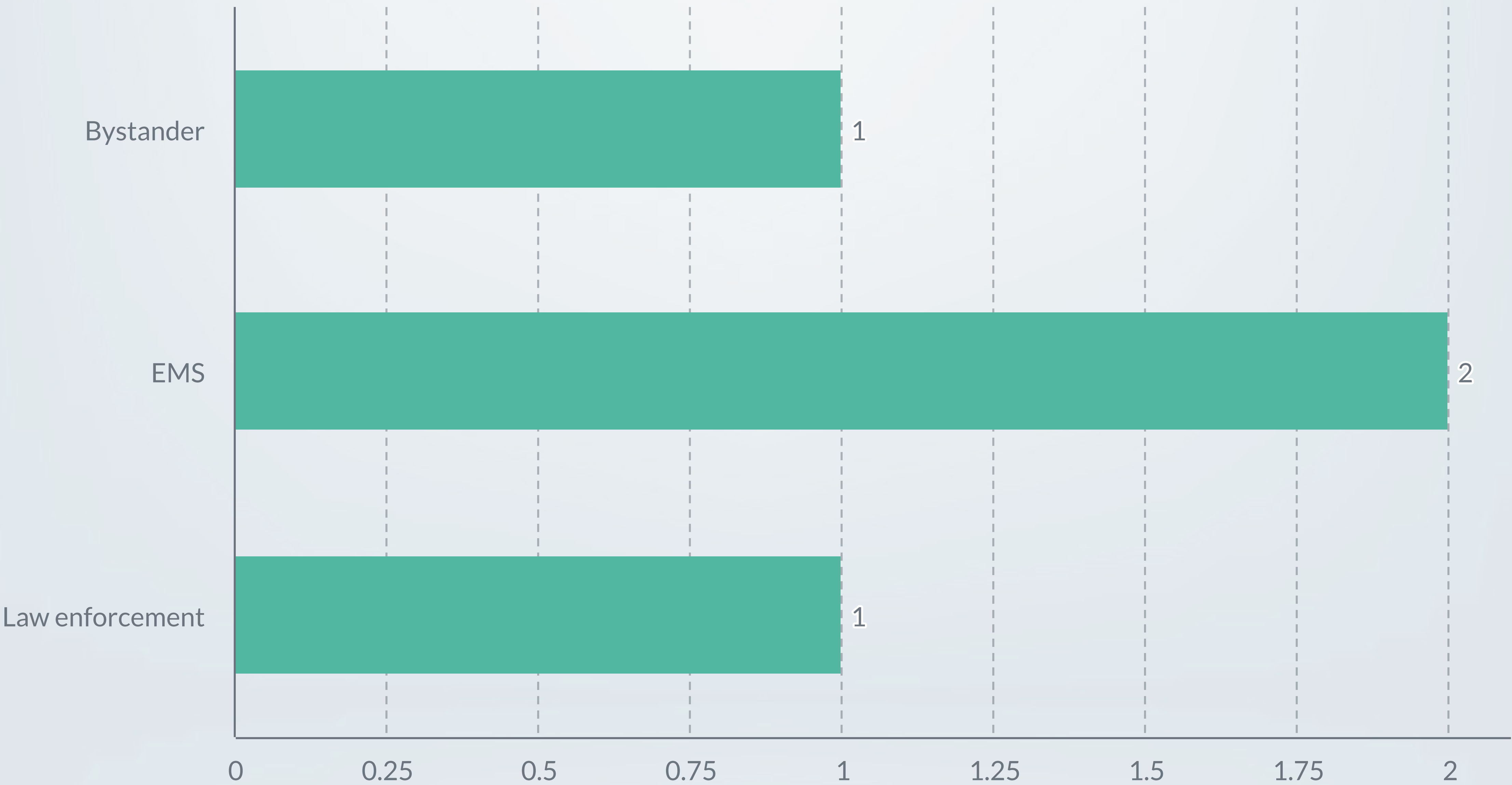
NALOXONE ADMINISTRATION STATUS



HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED



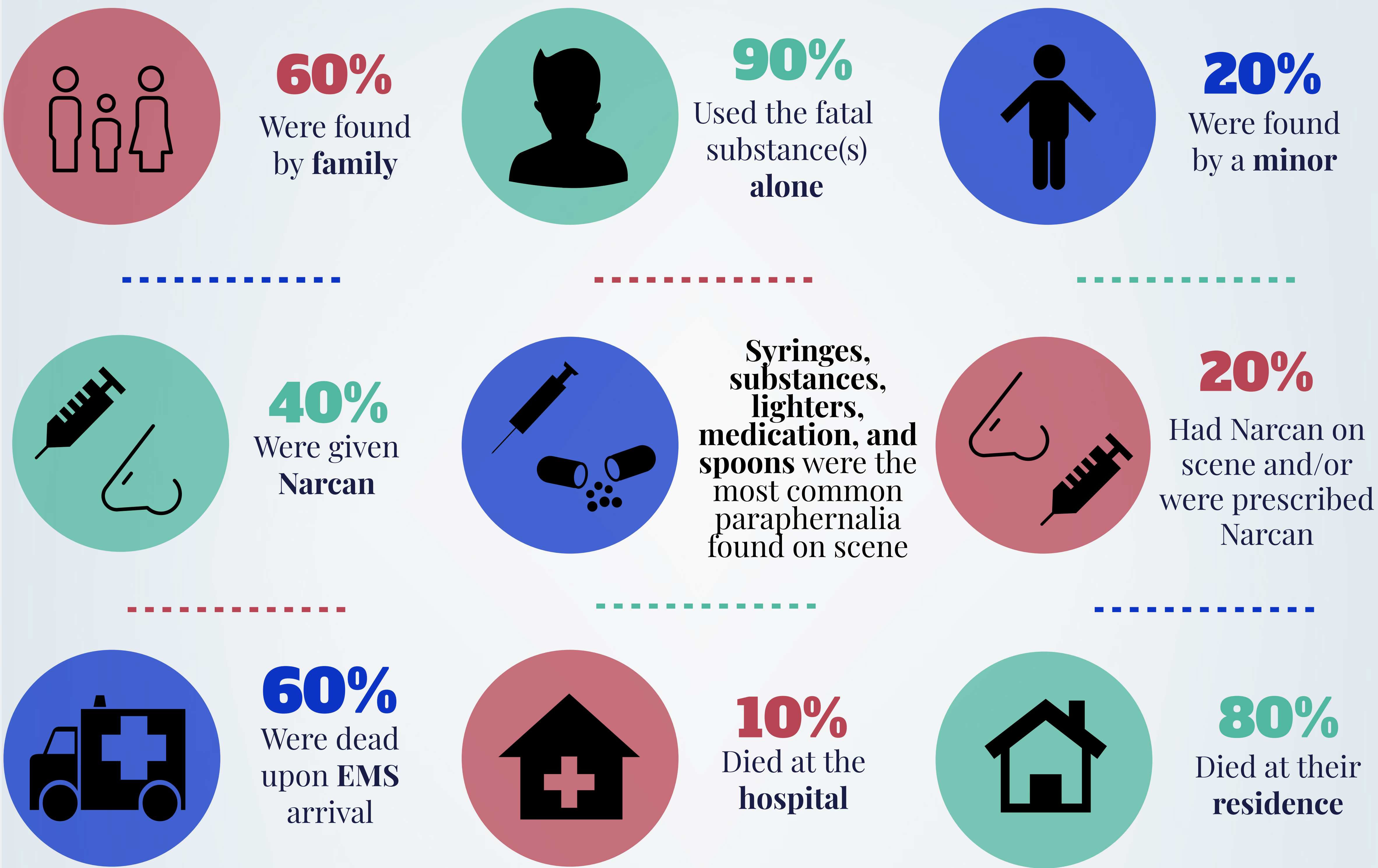
WHO ADMINISTERED NALOXONE?



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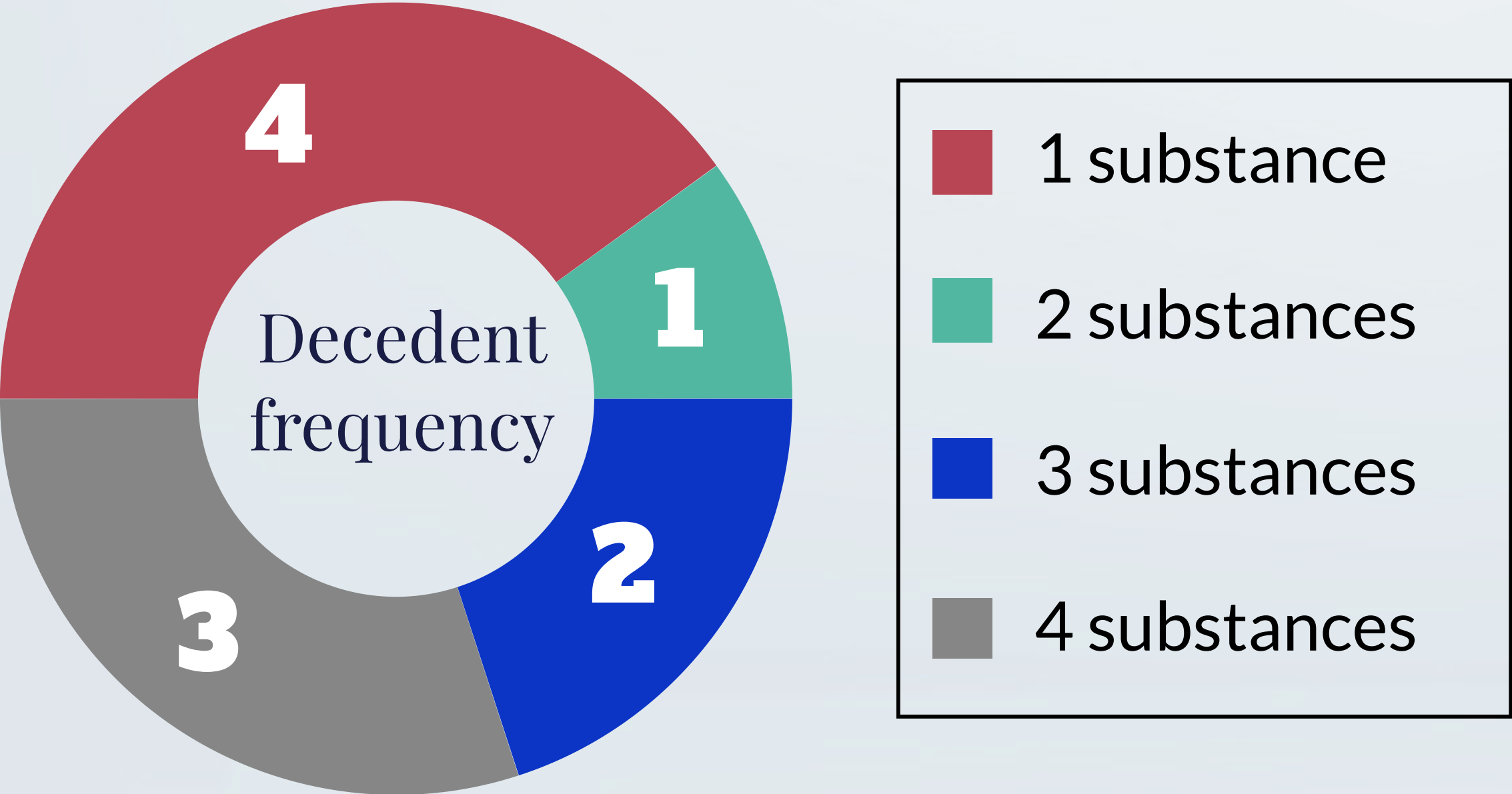
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Death Scene Findings



Autopsy and Toxicology Results

NUMBER OF SUBSTANCES CONTRIBUTING TO DEATH



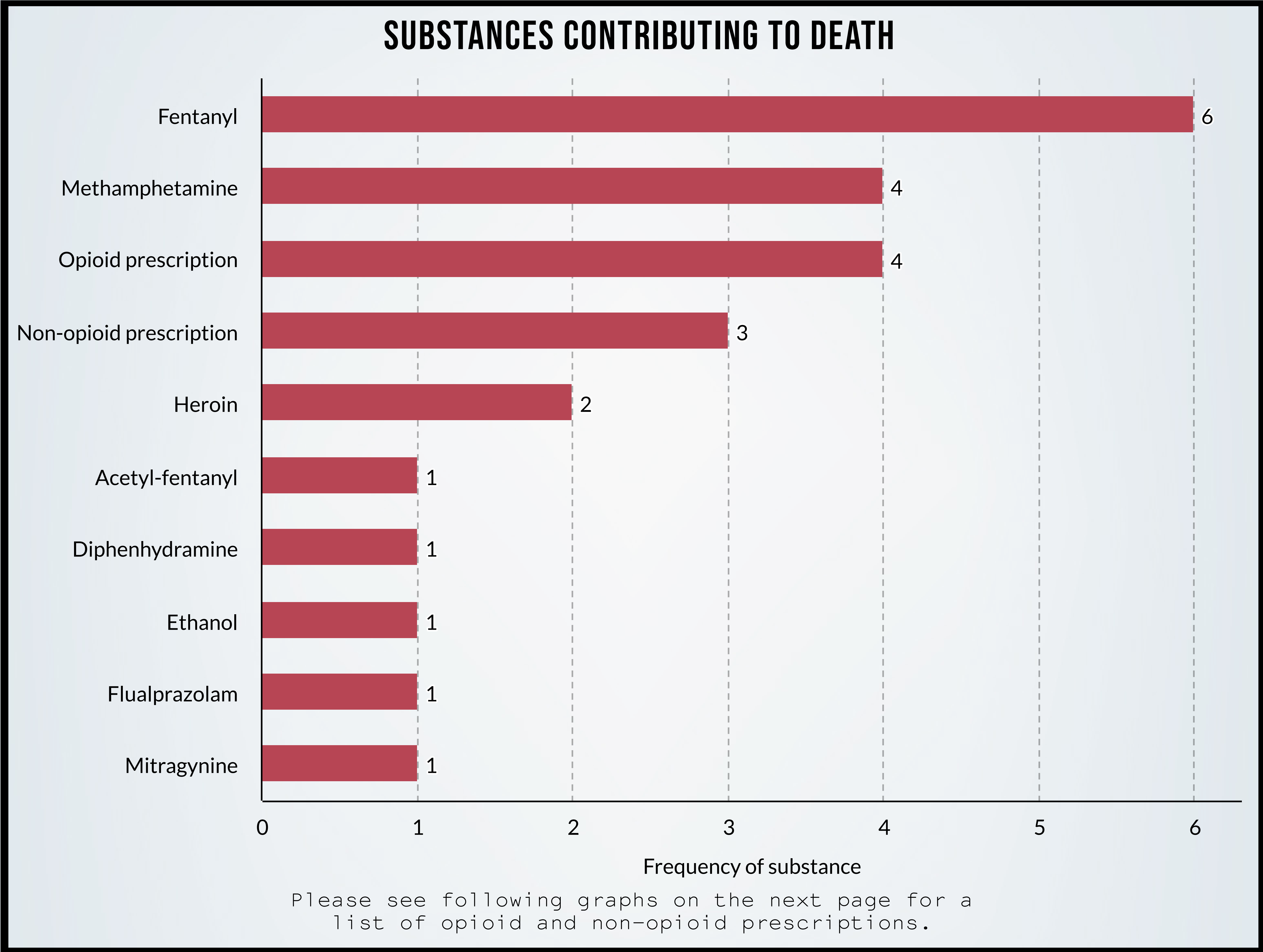
MANNER OF DEATH



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Substance Breakdown



HEROIN & FENTANYL

- 2 decedents had heroin in their toxicology
- Both decedents also had fentanyl in their toxicology

XYLAZINE & FENTANYL

- 0 decedents had xylazine in their toxicology
- 0 decedents also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

- 3 decedents had a benzodiazepine and an opioid in their toxicology
- 1 decedent was prescribed that opioid and benzodiazepine

METHAMPHETAMINE & OPIOIDS

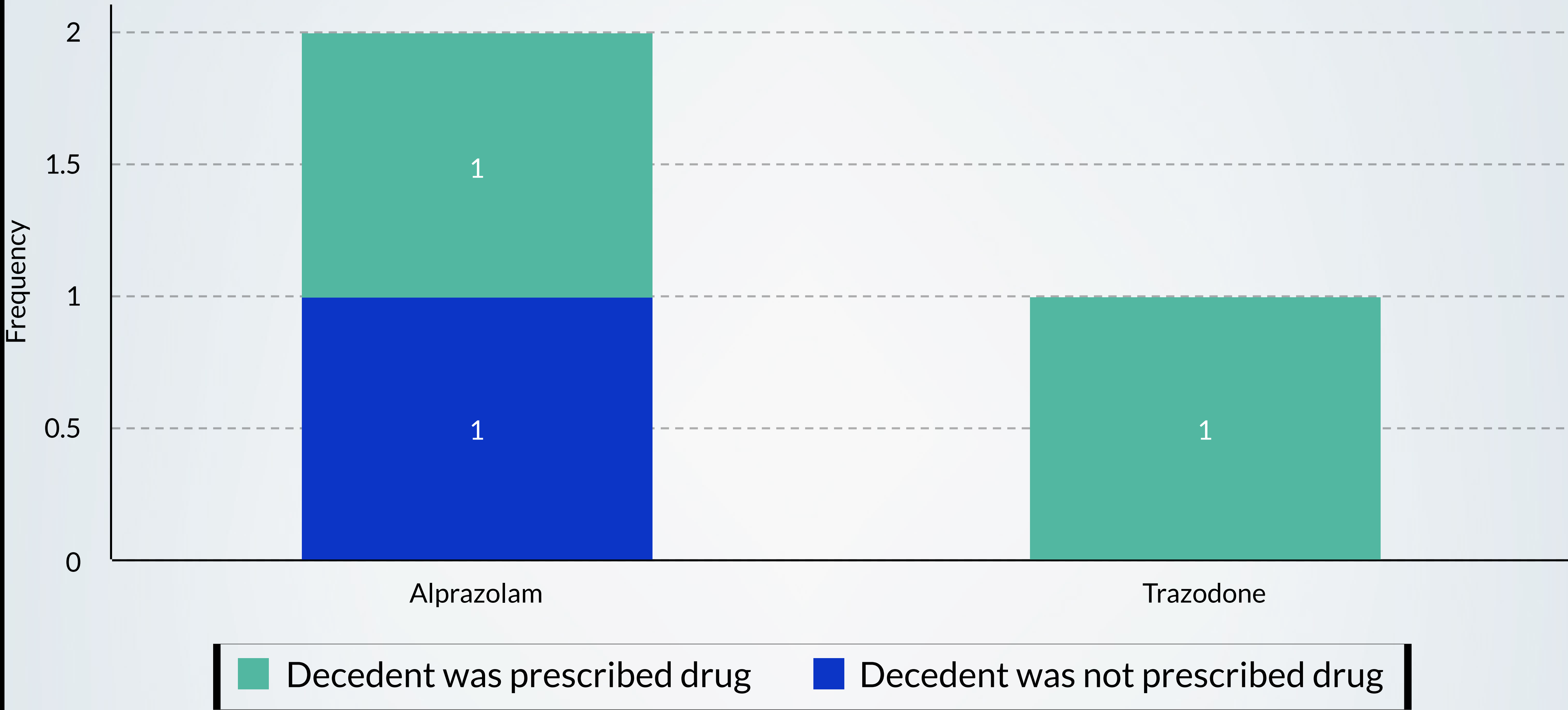
- 2 decedents had methamphetamine and opioid(s) in their toxicology
- 1 decedent had methamphetamine and heroin in their toxicology

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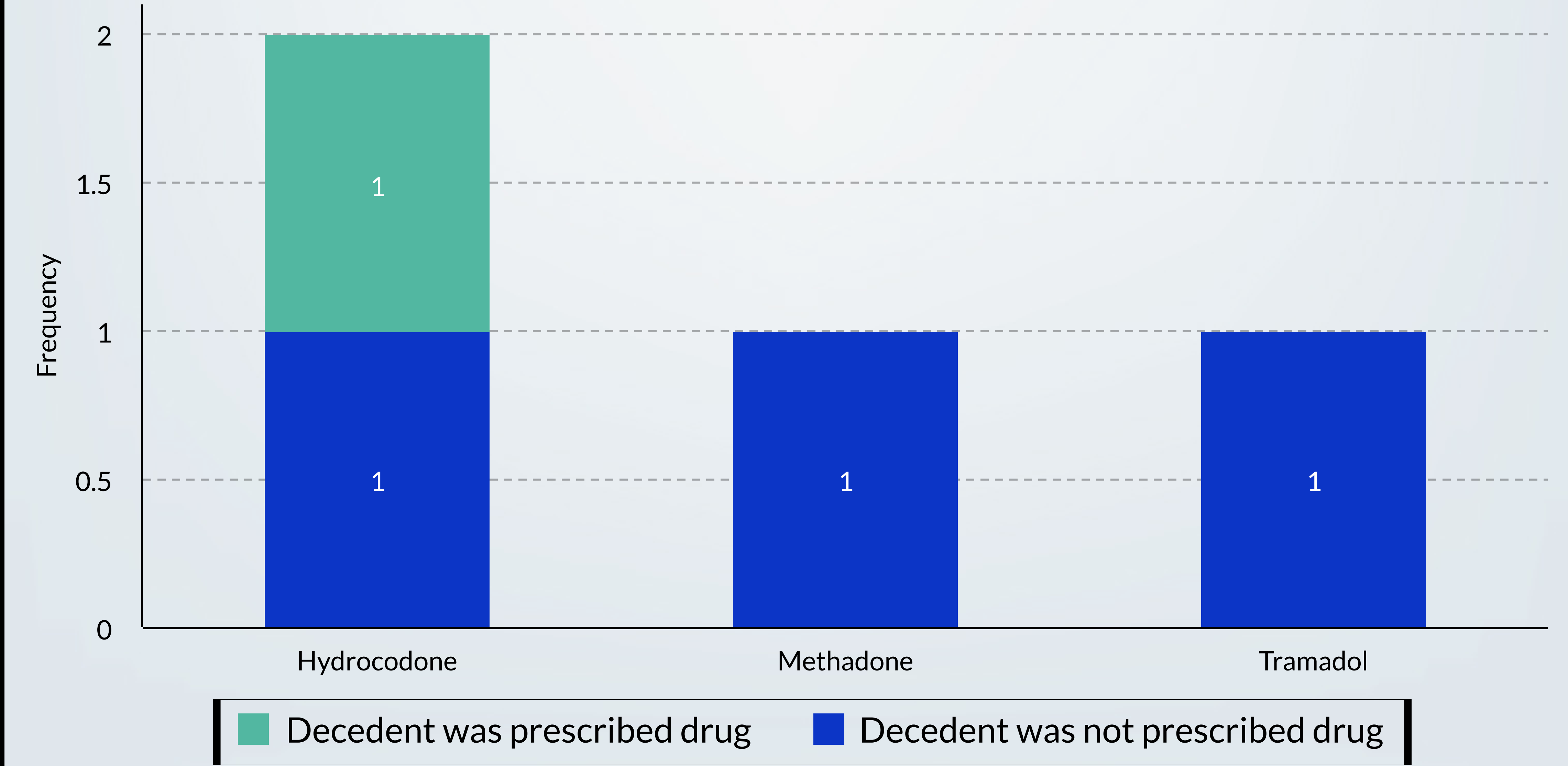
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Autopsy and Toxicology Results, cont.

NON-OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



Note: Of the 6 decedents with fentanyl present in their toxicology, 0 were prescribed fentanyl