

2020 ANNUAL REPORT

Deaths related to opioids and other drugs

Van Buren

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
20	W	F	Pt. I: Alprazolam, fentanyl, heroin	49071
25	W	M	<i>Pt. II: Fentanyl, heroin, xylazine, diphenhydramine*</i>	49013
27	W	F	Pt. I: Methamphetamine, fentanyl	49090
30	W	M	Pt. I: Mitragnine	49079
33	W	M	Pt. I: Methadone, alprazolam	49055
34	W	F	Pt. I: Difluoroethane	Unknown
35	B	M	Pt. I: Fentanyl, ethanol, methamphetamine, lorazepam, diphenhydramine	49045
40	W	F	Pt. I: Ethanol, glipizide	49013
40	W	M	Pt. I: Methamphetamine	49506
41	W	M	<i>Pt. II: Gabapentin, alprazolam, dihydrocodeine, hydrocodone, hydromorphone*</i>	49057
42	W	M	Pt. I: Heroin, ethanol	49057
60	W	M	<i>Pt. I: Acute and Chronic Alcohol Use*</i>	49079
60	W	M	Pt. I: Fentanyl, oxycodone	49056
61	W	M	Pt. I: Methamphetamine	49064
61	W	F	Pt. I: Fentanyl, brorphine	49079
62	W	F	Pt. I: Methamphetamine	49071
63	B	M	Pt. I: Methamphetamine	49090
88	W	M	Pt. I: Hydrocodone, zolpidem, carbon monoxide	49056

* Case is not included in the following report

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Total deaths due to drugs: 2018, 2019, 2020

2018

9 deaths

3 opioid only

1 non-opioid only

5 opioid & non-opioid

1.2

deaths per 10,000

2019

13 deaths

2 opioid only

1 non-opioid only

10 opioid & non-opioid

1.7

deaths per 10,000

2020

15 deaths

3 opioid only

6 non-opioid only

6 opioid & non-opioid

2.0

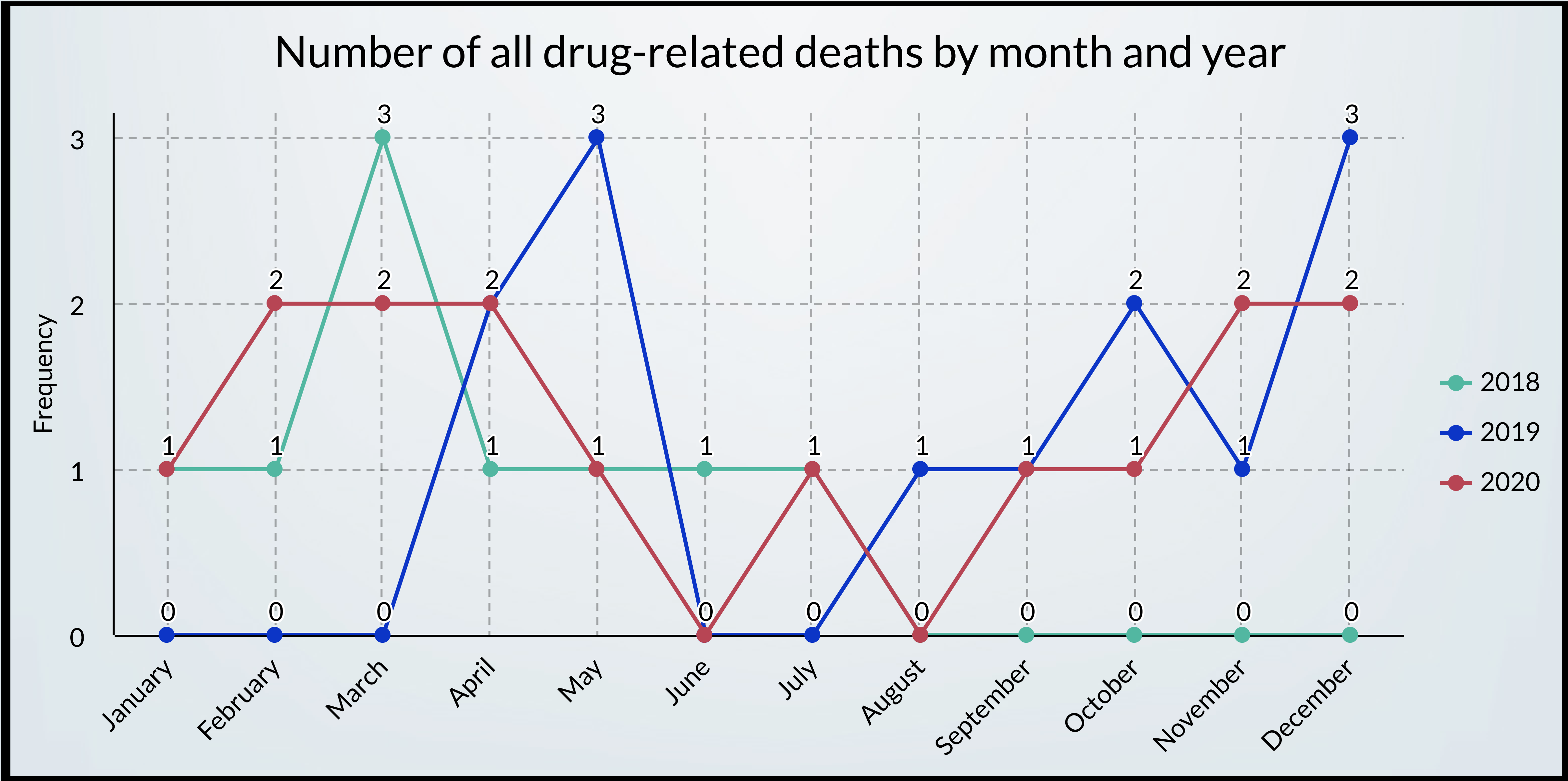
deaths per 10,000

Number of nonfatal overdoses among ED discharges, 2020

217

28.5

Nonfatal overdoses per 10,000



Percent increase from 2018 to 2019

44%

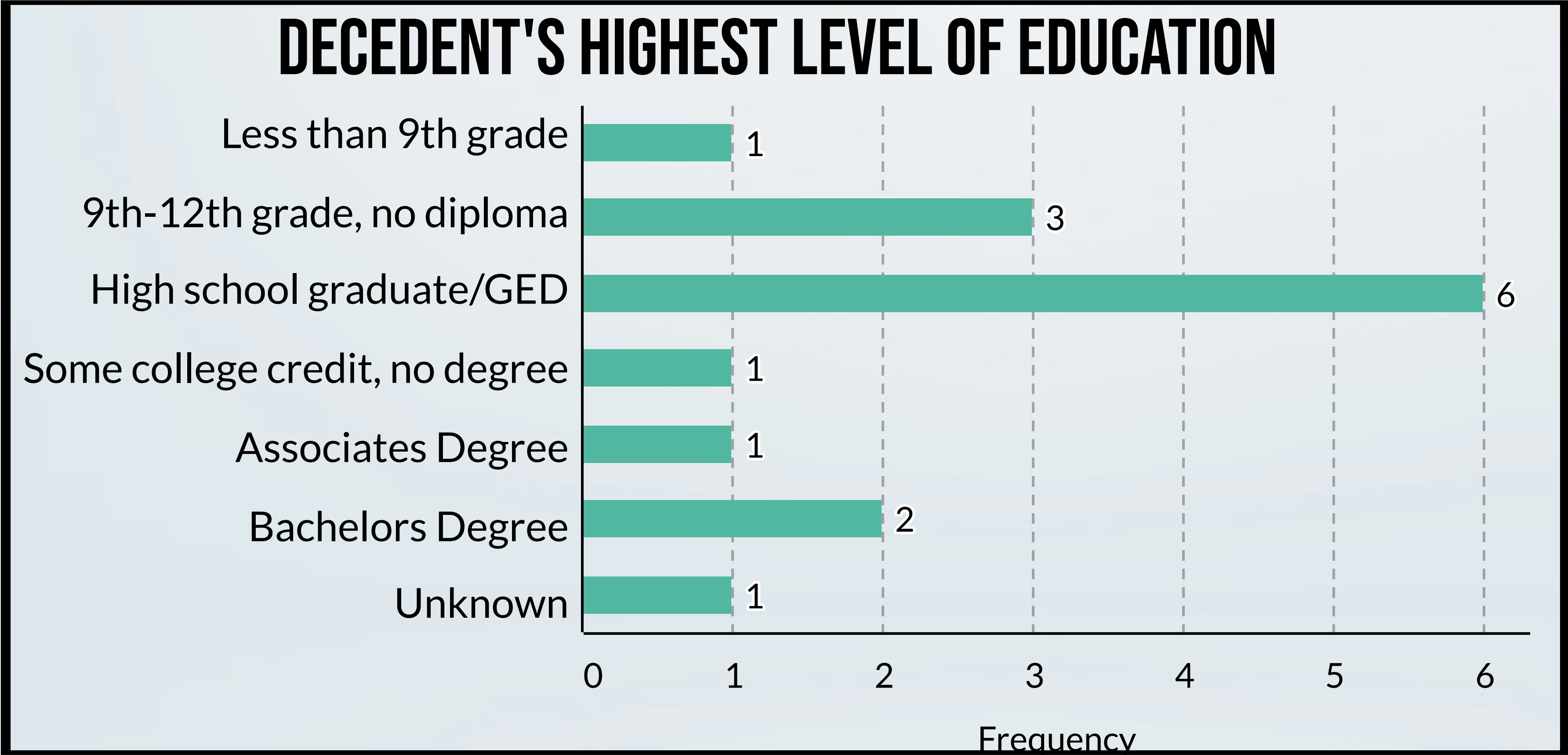
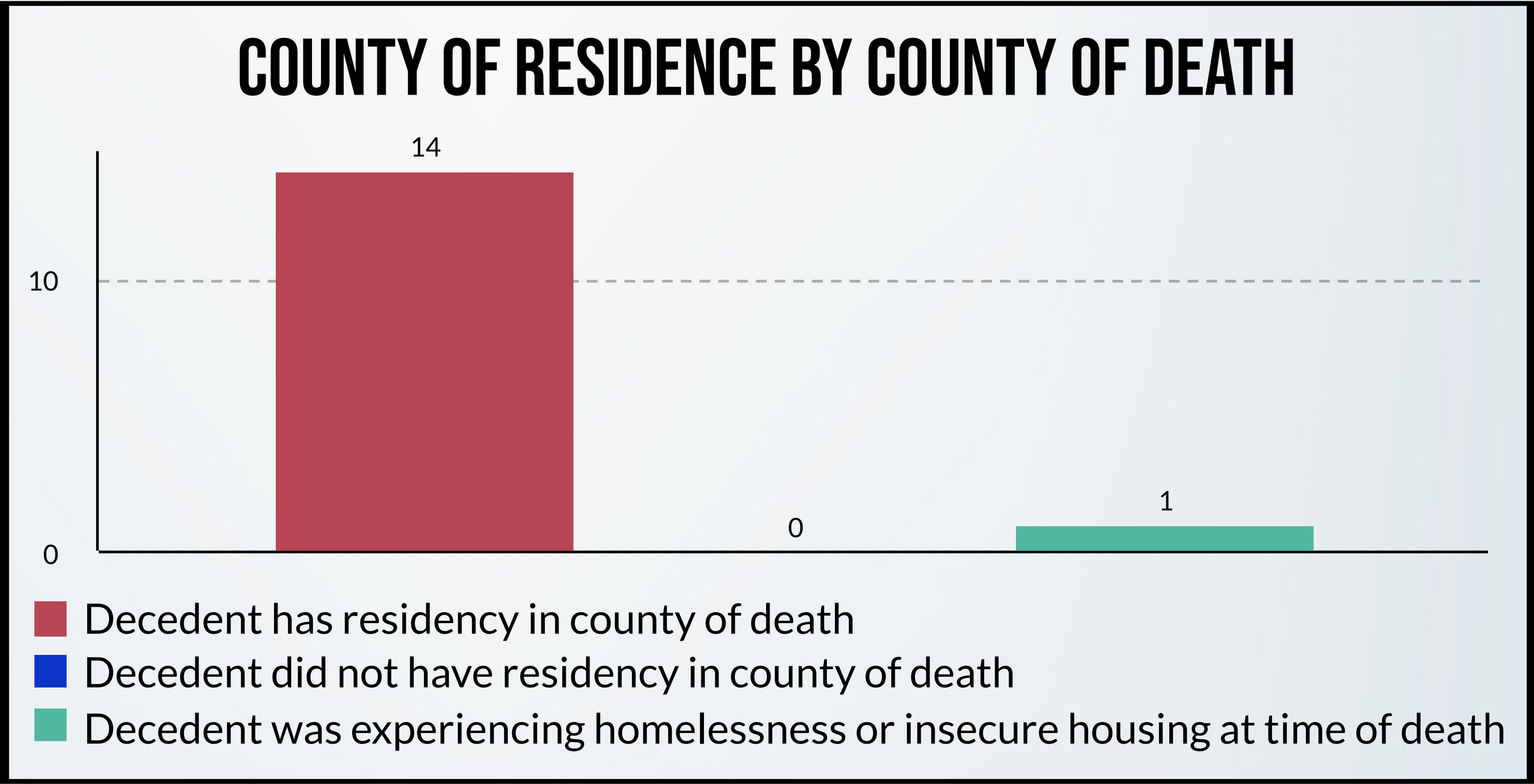
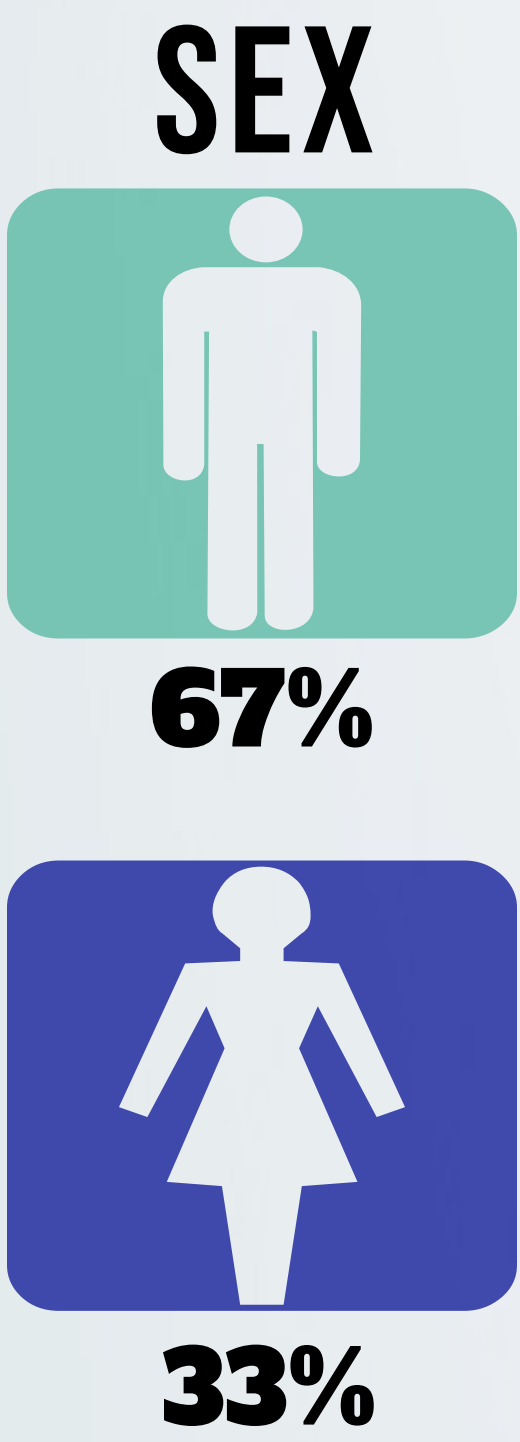
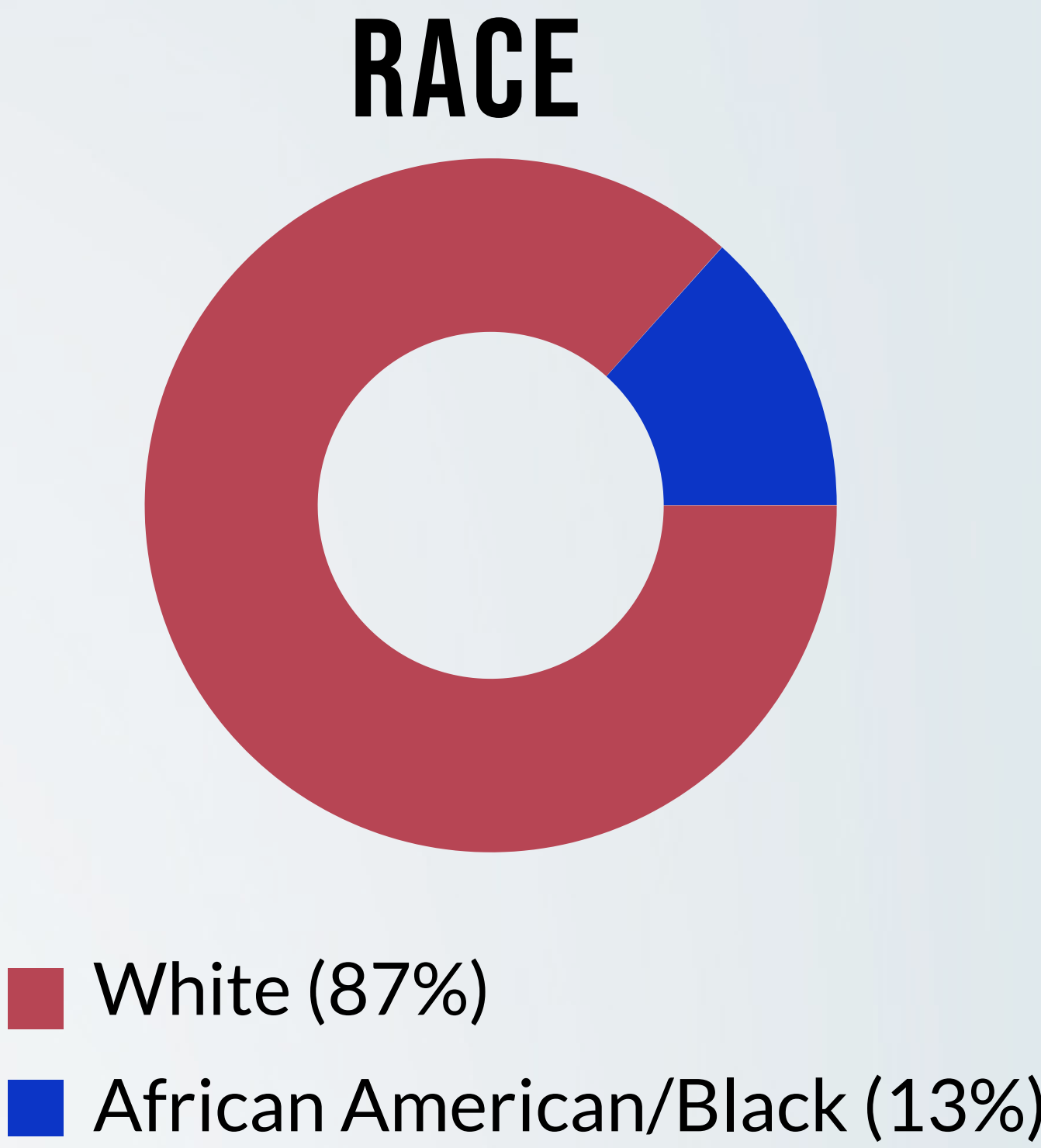
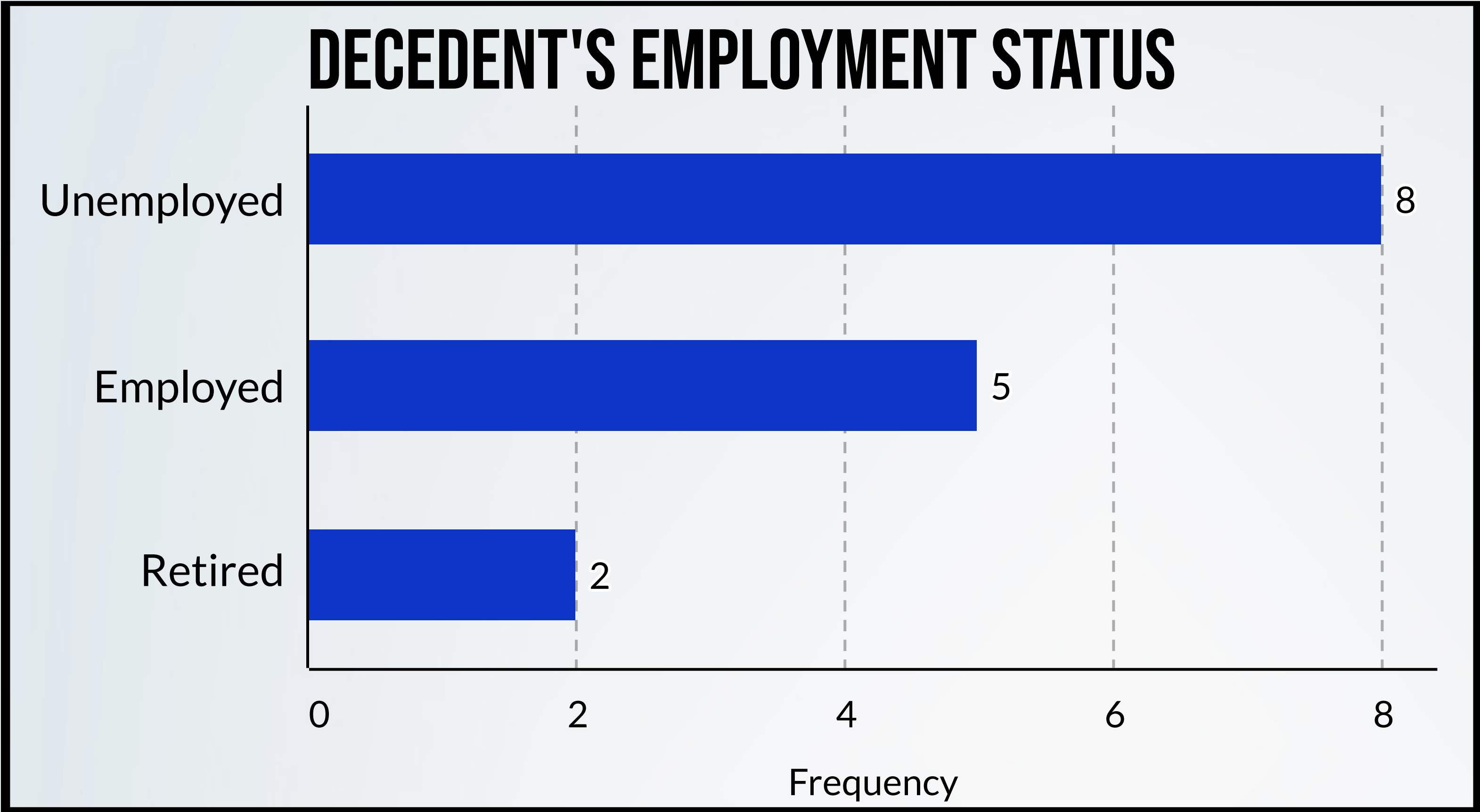
15%

Percent increase from 2019 to 2020

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Demographics



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Health Factors

MOST PREVALENT AILMENTS*

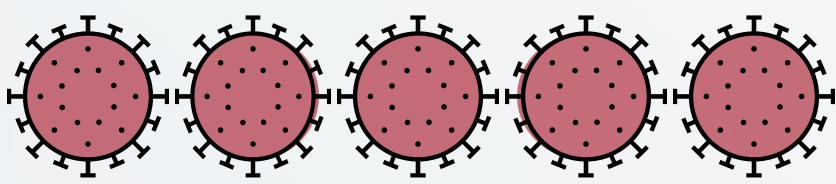
Heart** (40%)

Chronic pain (40%)

Hypertension (27%)

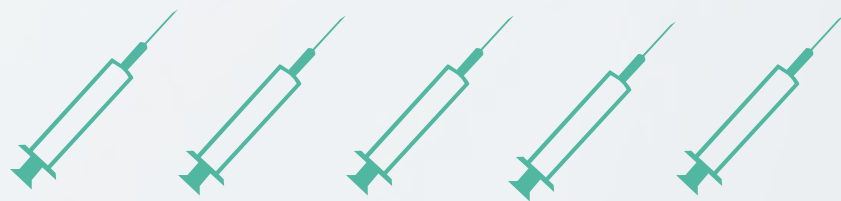
Lungs (20%)

*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



At least **2** decedents were **Hepatitis C** positive

1 of these decedents was known to use **substances intravenously**



Decedent used tobacco

87%+



Decedent drank alcohol

60%+

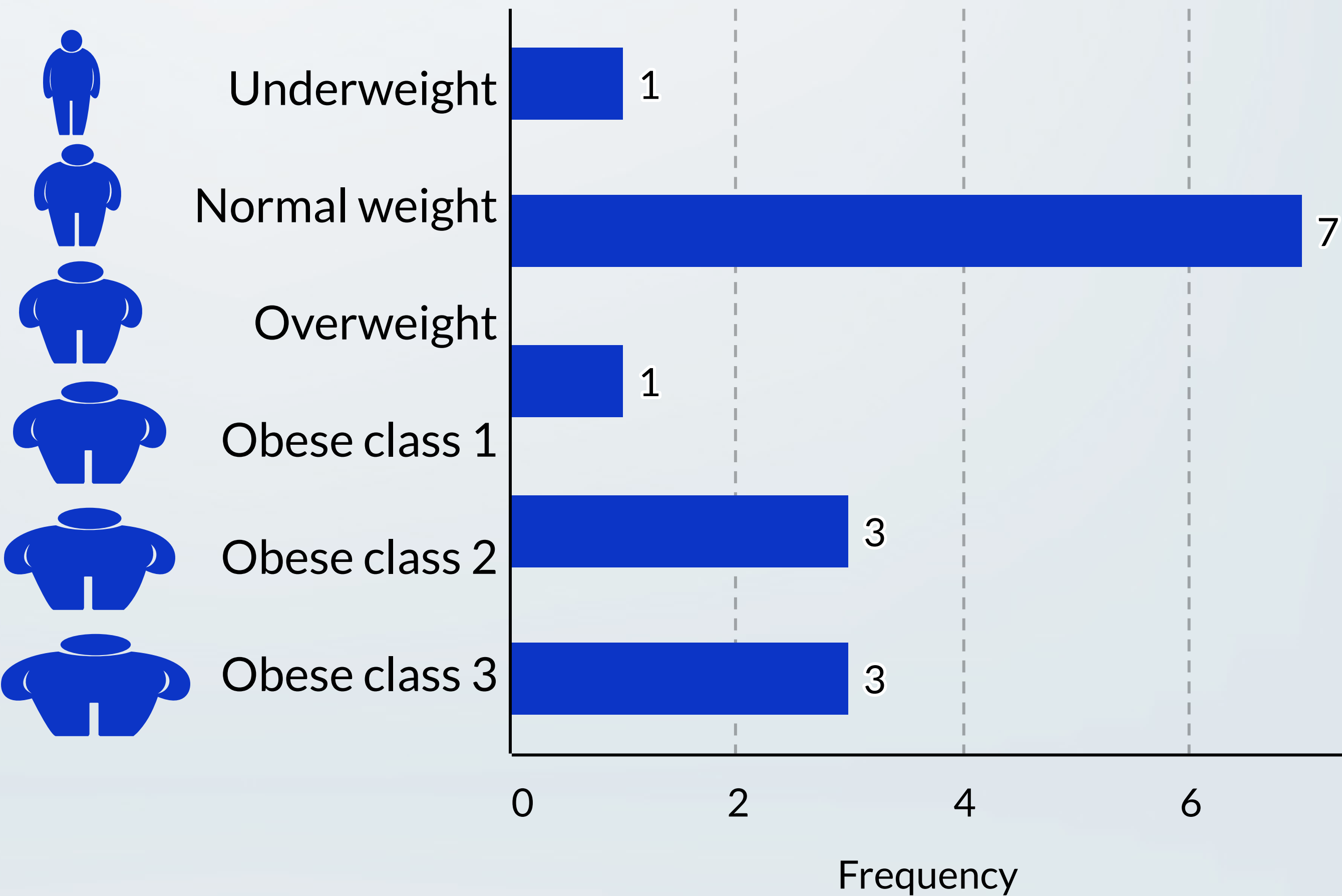


Decedent had a PCP

40%



BODY MASS INDEX (BMI)



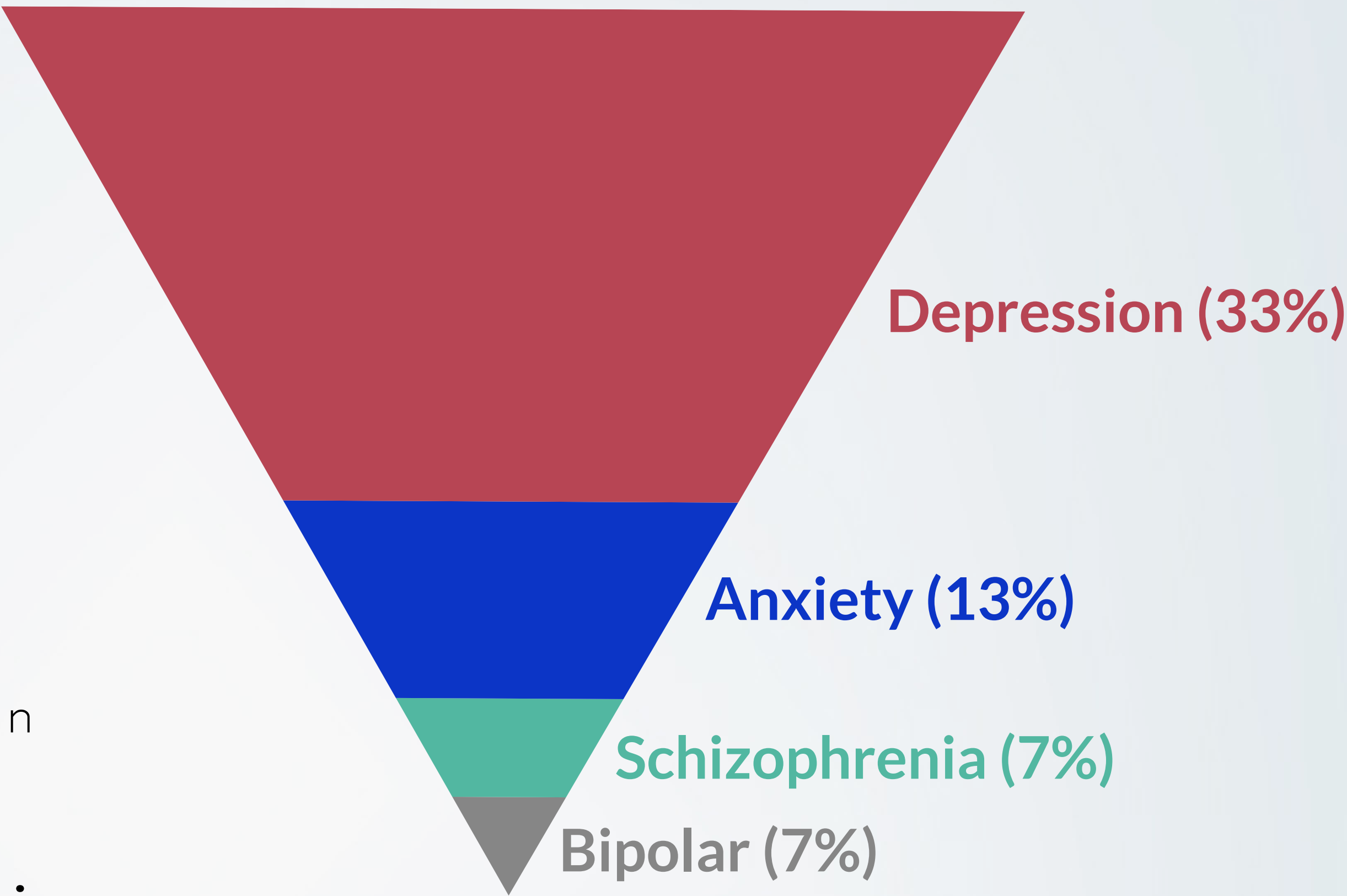
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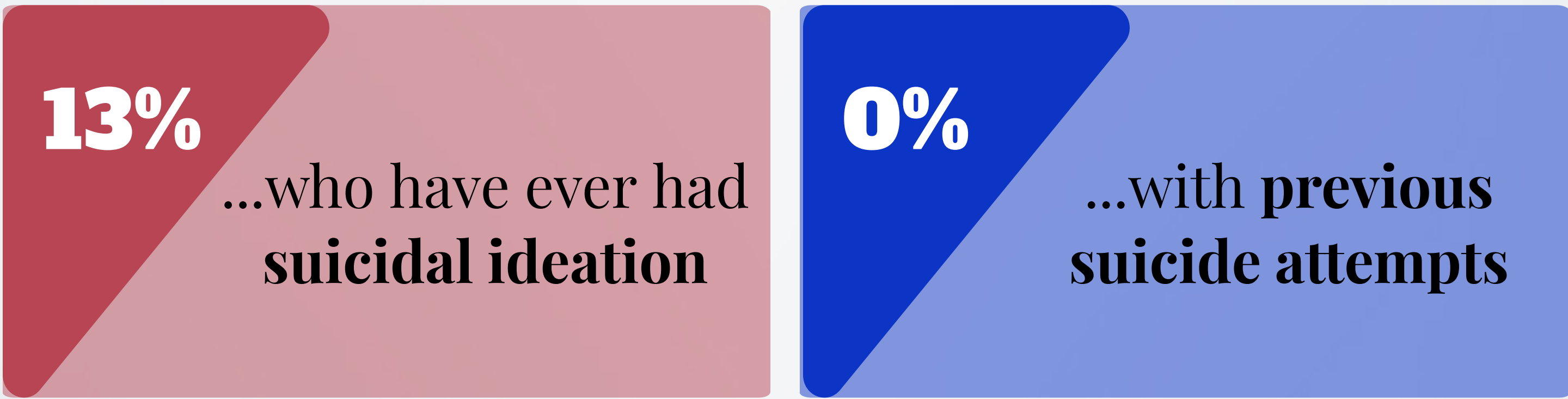
Mental Health Factors

MOST
PREVALENT
MENTAL ILLNESSES*

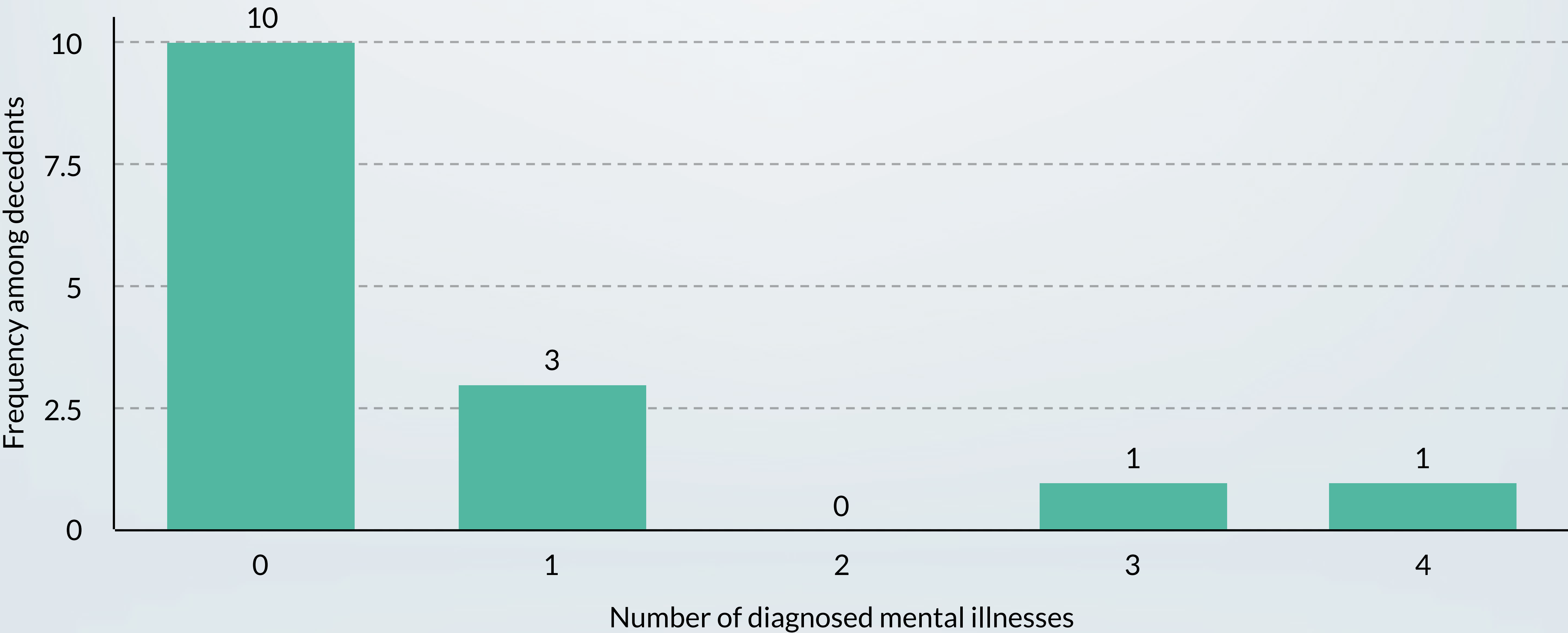
*Decedents may be represented in more than one category. Only mental illnesses with official diagnosis are included.



PERCENTAGE OF DECEDENTS...



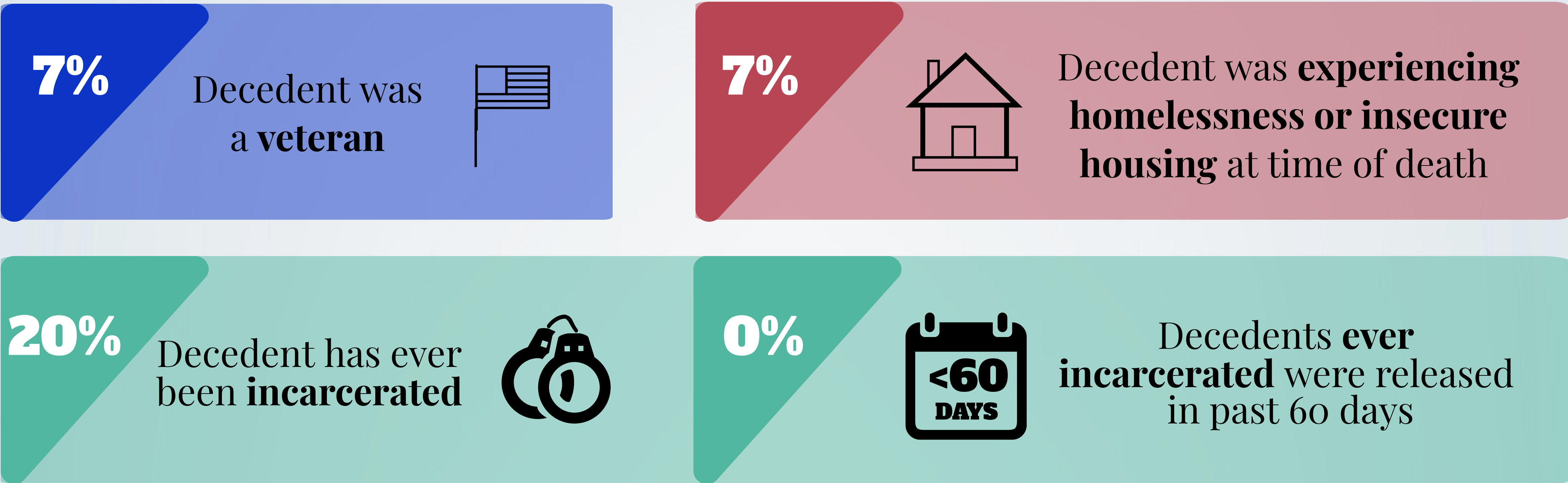
NUMBER DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS



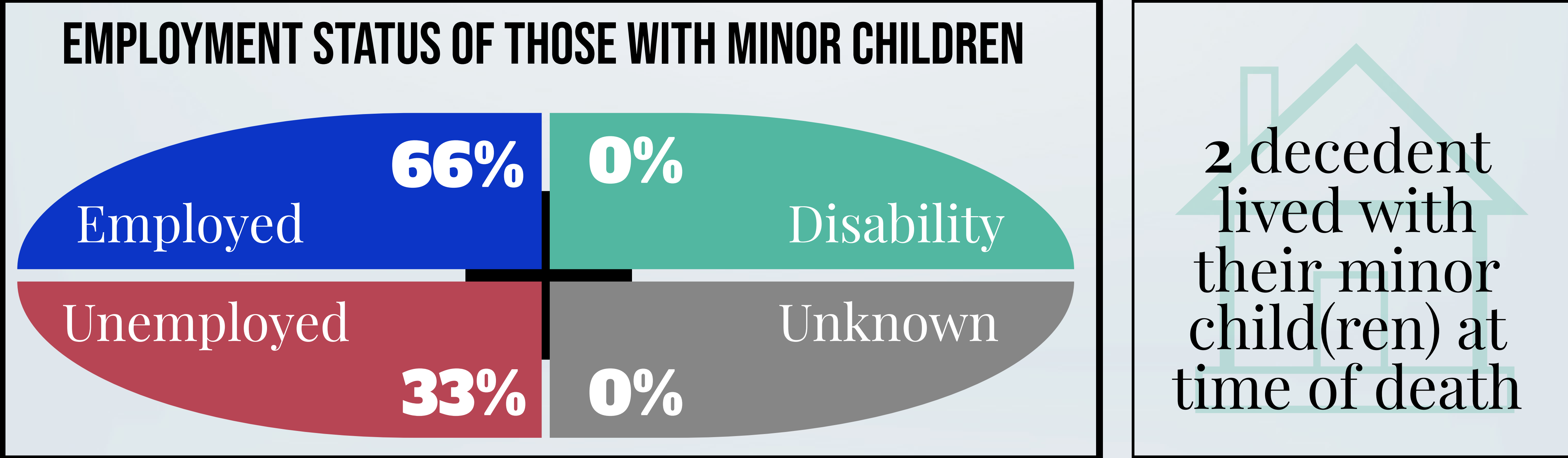
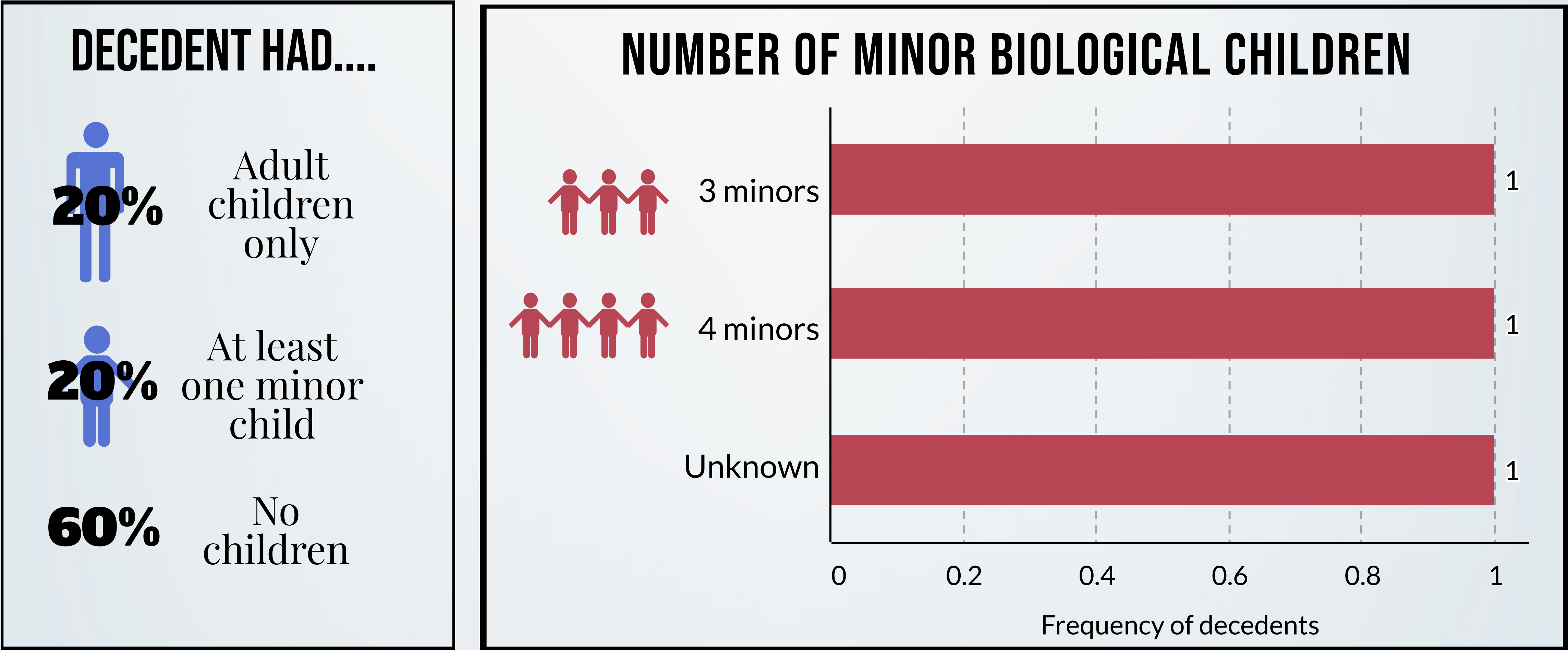
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Social Factors



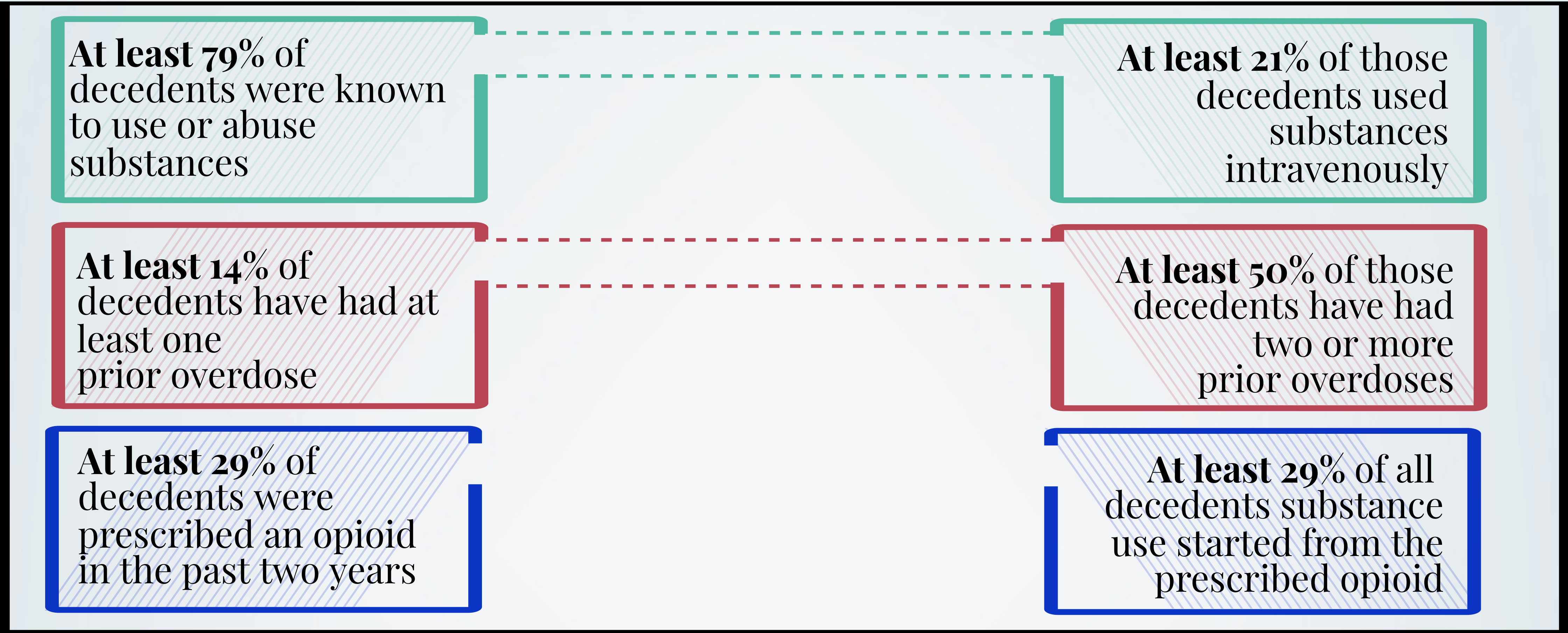
Children



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Substance Use History



RECOVERY HISTORY (N=12)*

27% 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

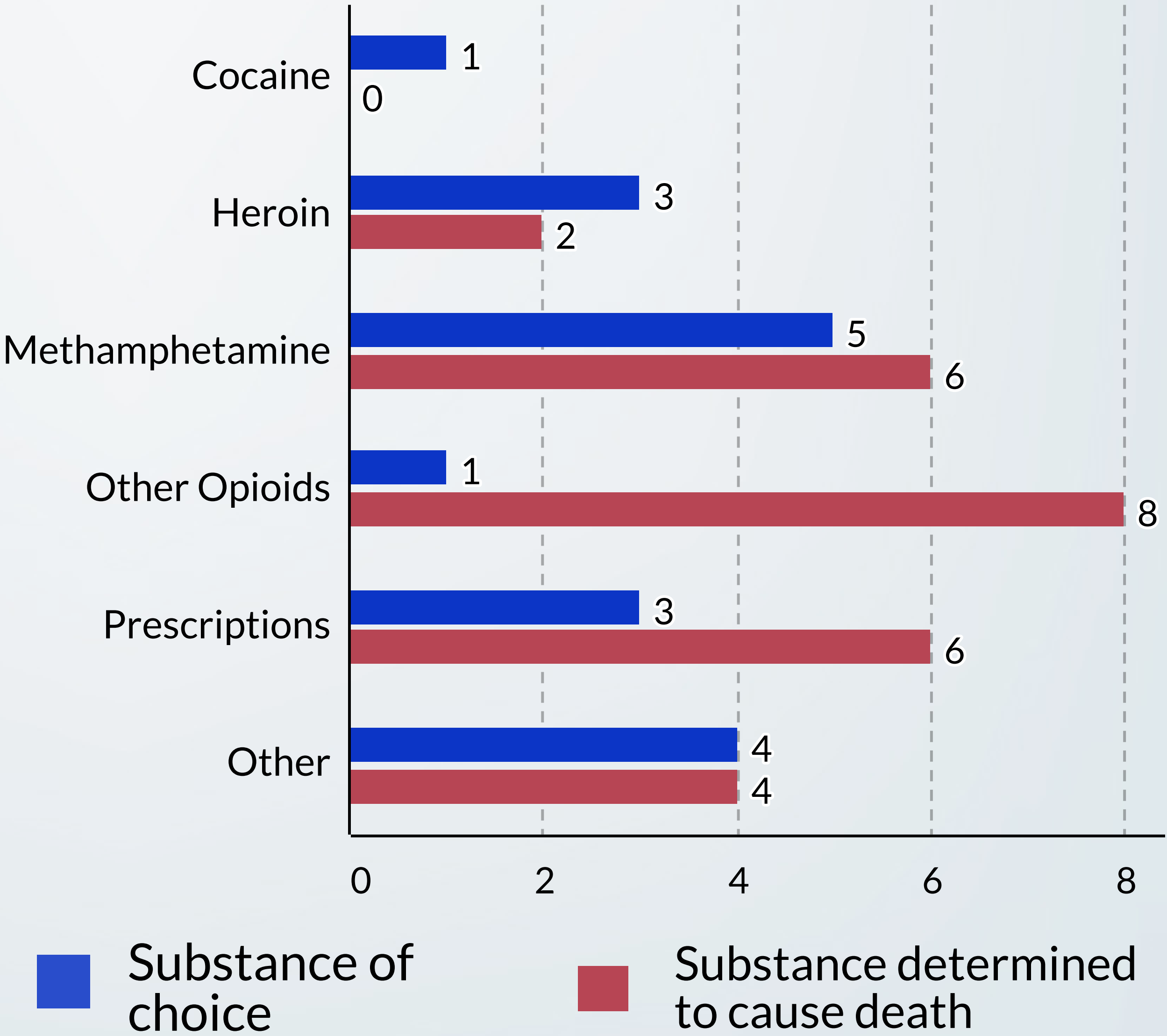
7% Decedent was recently **substance free** in the past three weeks*

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.

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



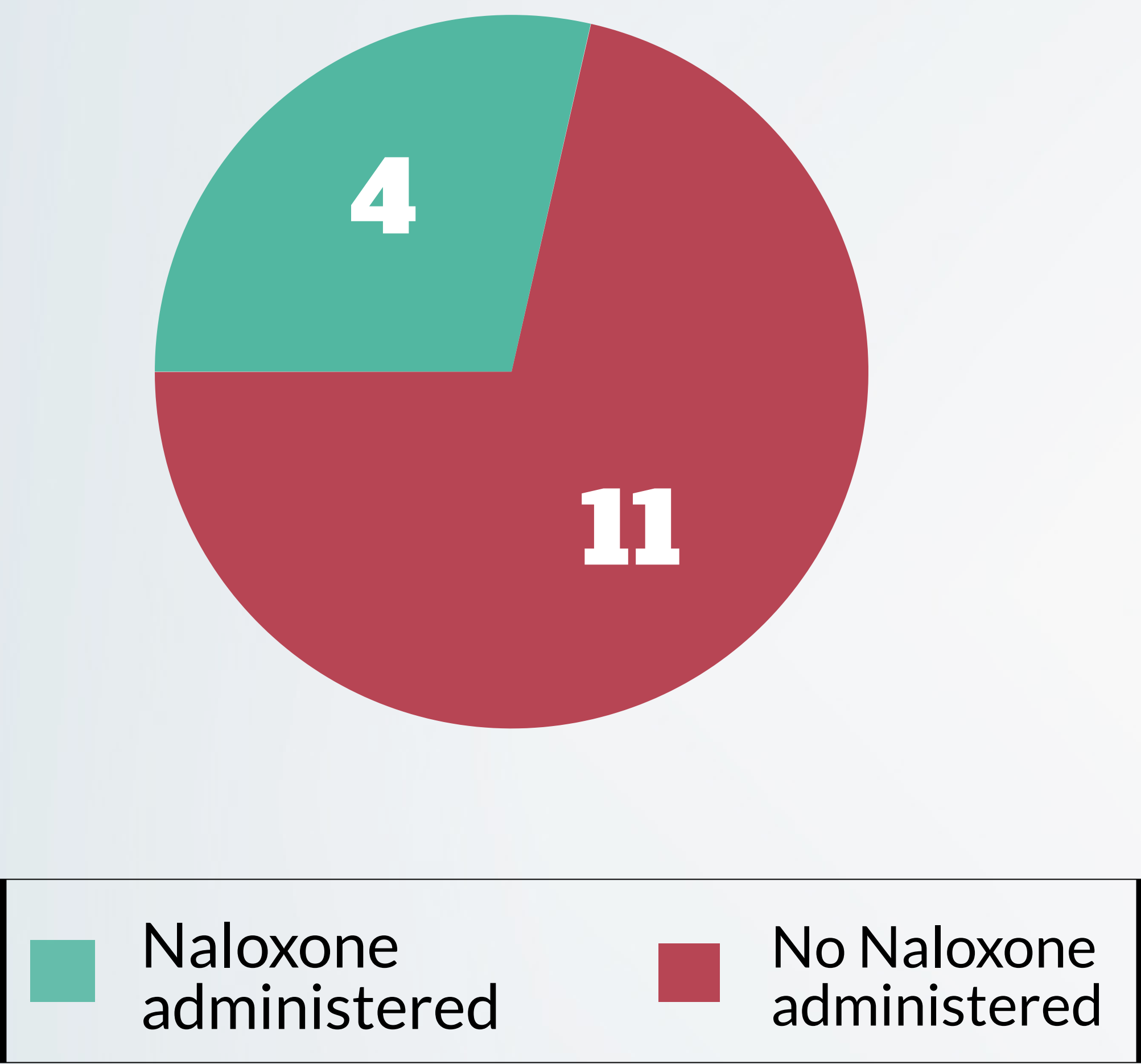
*Decedent may have had more than one substance of choice and in their toxicology.
NOTE: 3 decedents were not known to use substances and substance of choice information was unavailable for 1 decedent.
Prescriptions does not include opioids.
Other includes diphenhydramine, ethanol, inhalants, mitragynine, and mushrooms.

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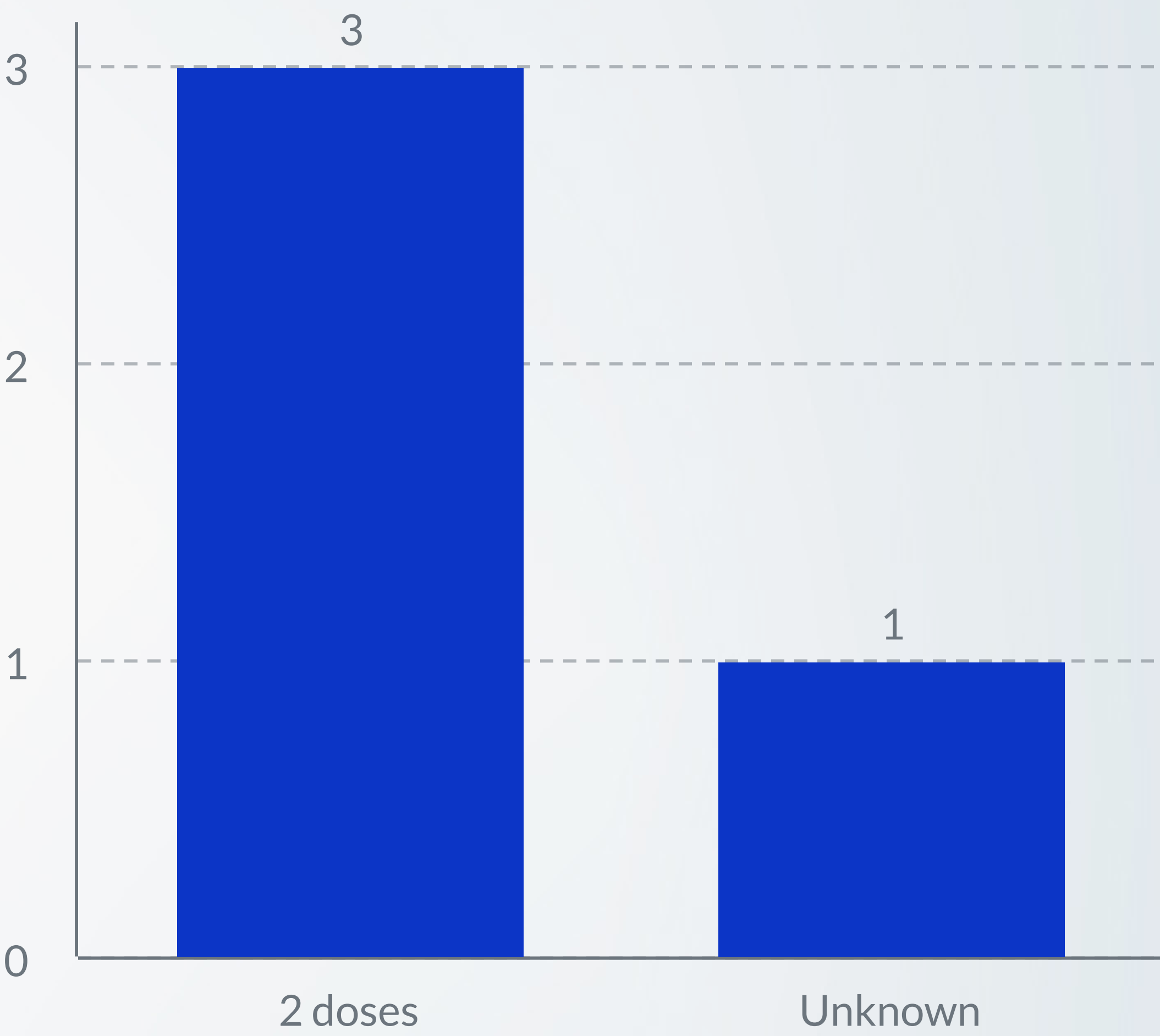
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Naloxone Administration

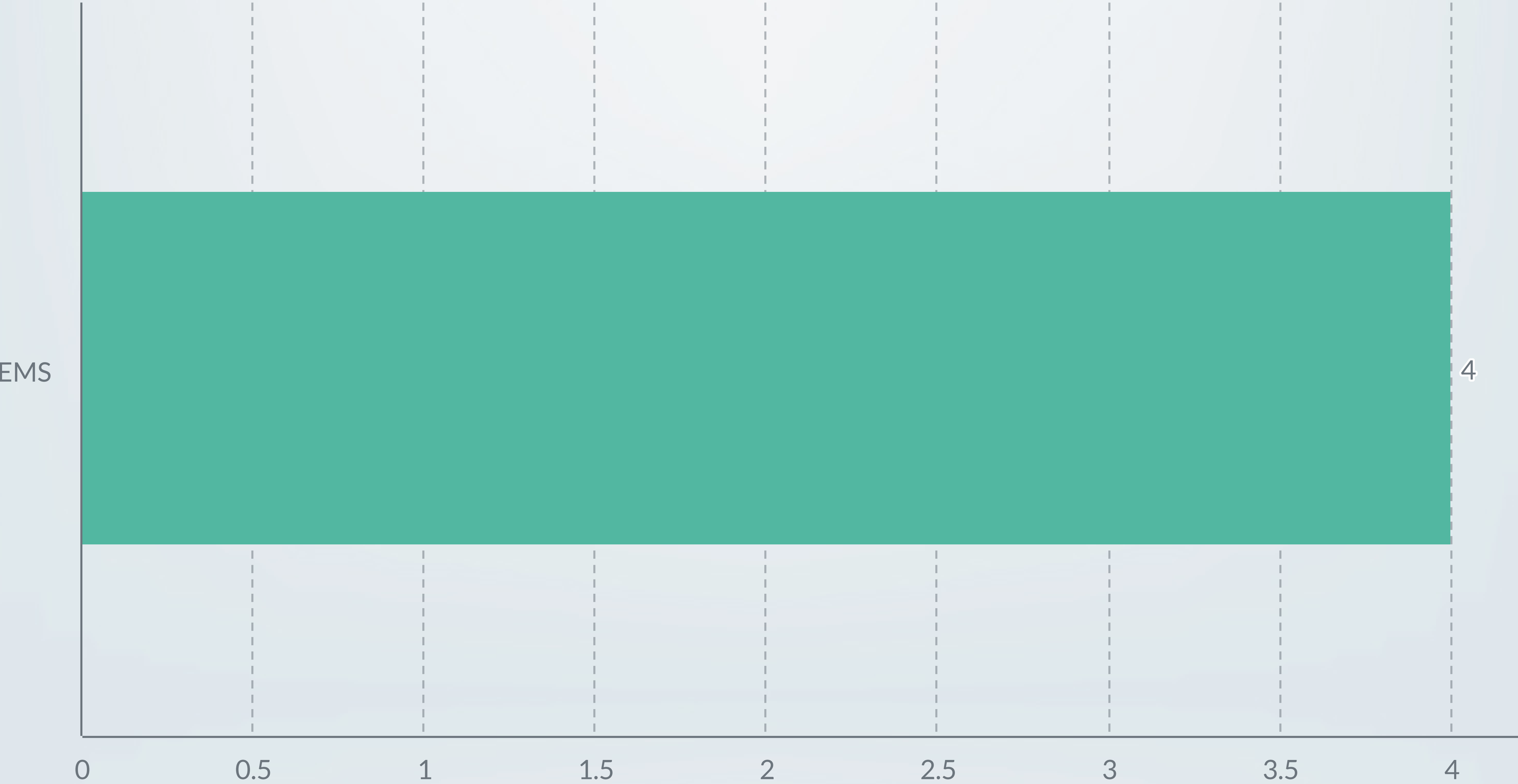
NALOXONE ADMINISTRATION STATUS



HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED



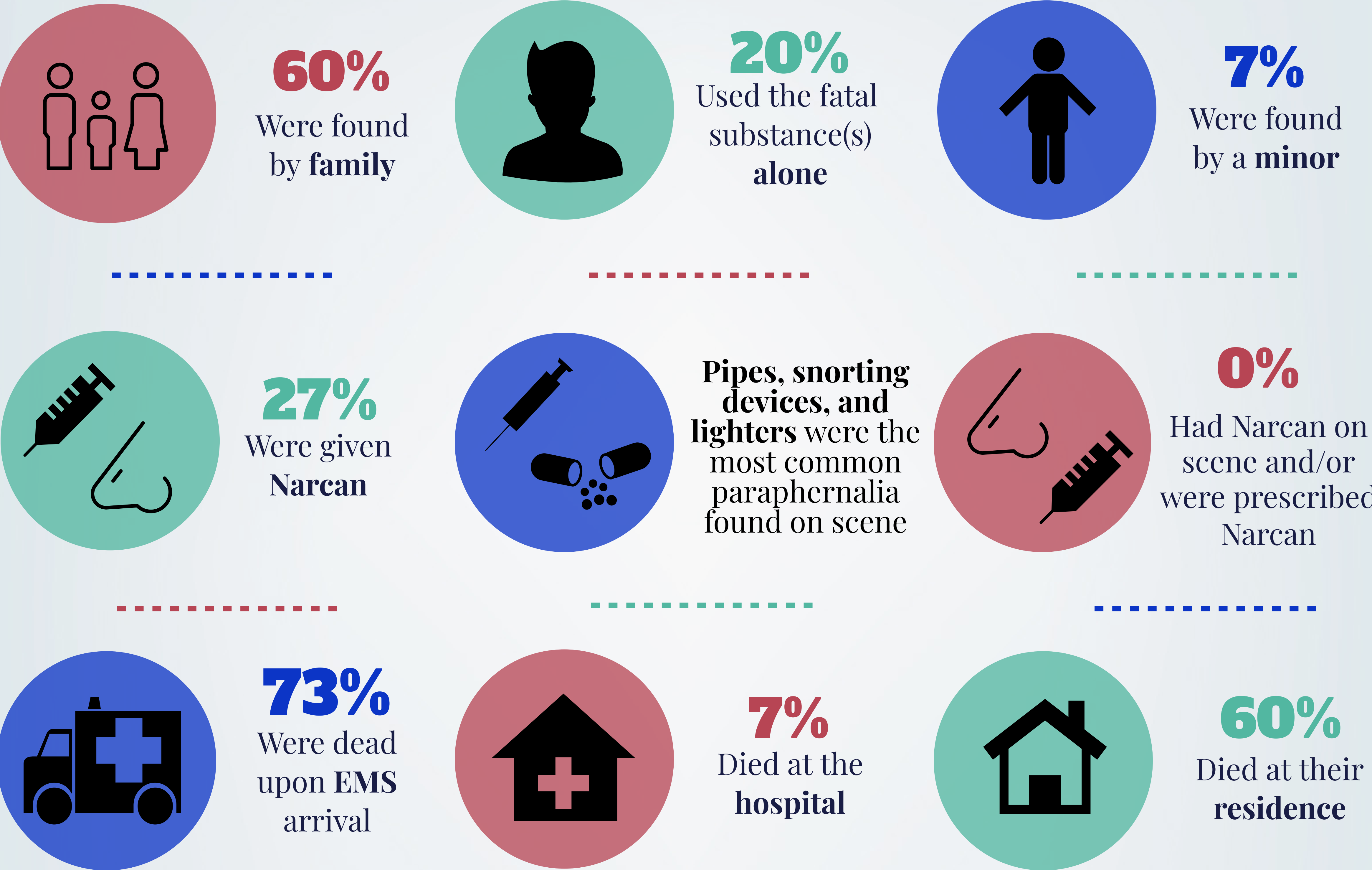
WHO ADMINISTERED NALOXONE?



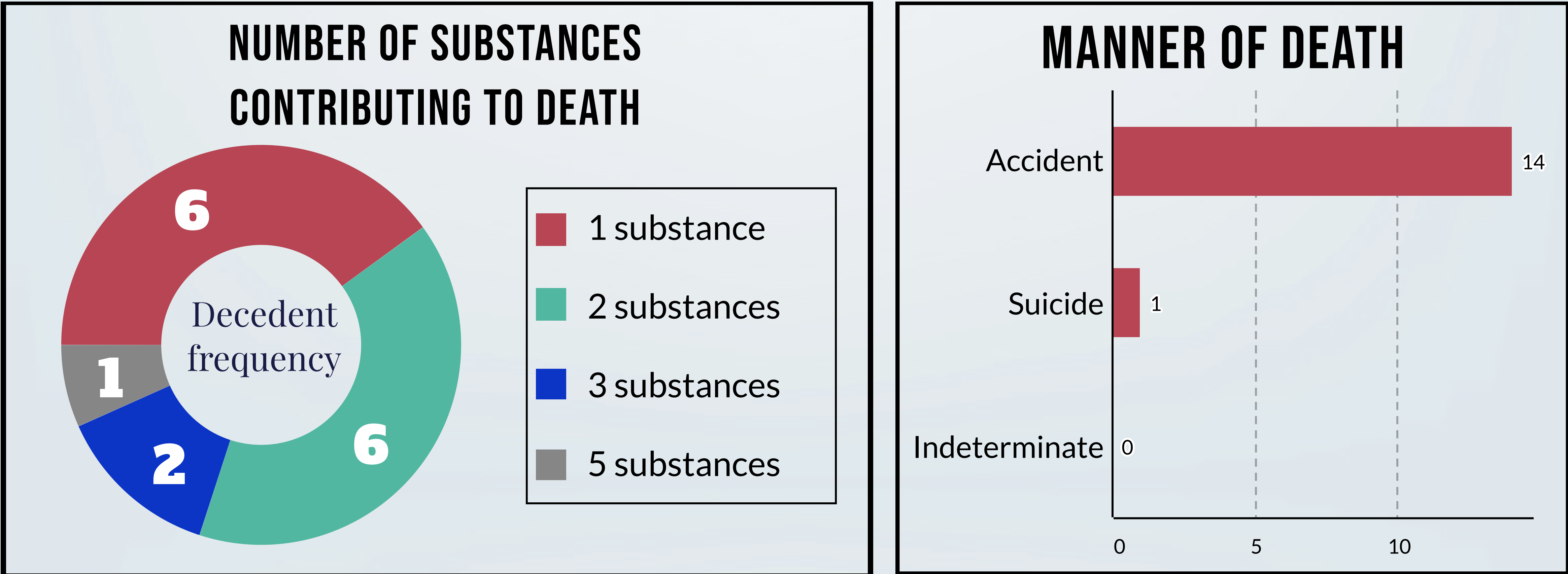
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Death Scene Findings



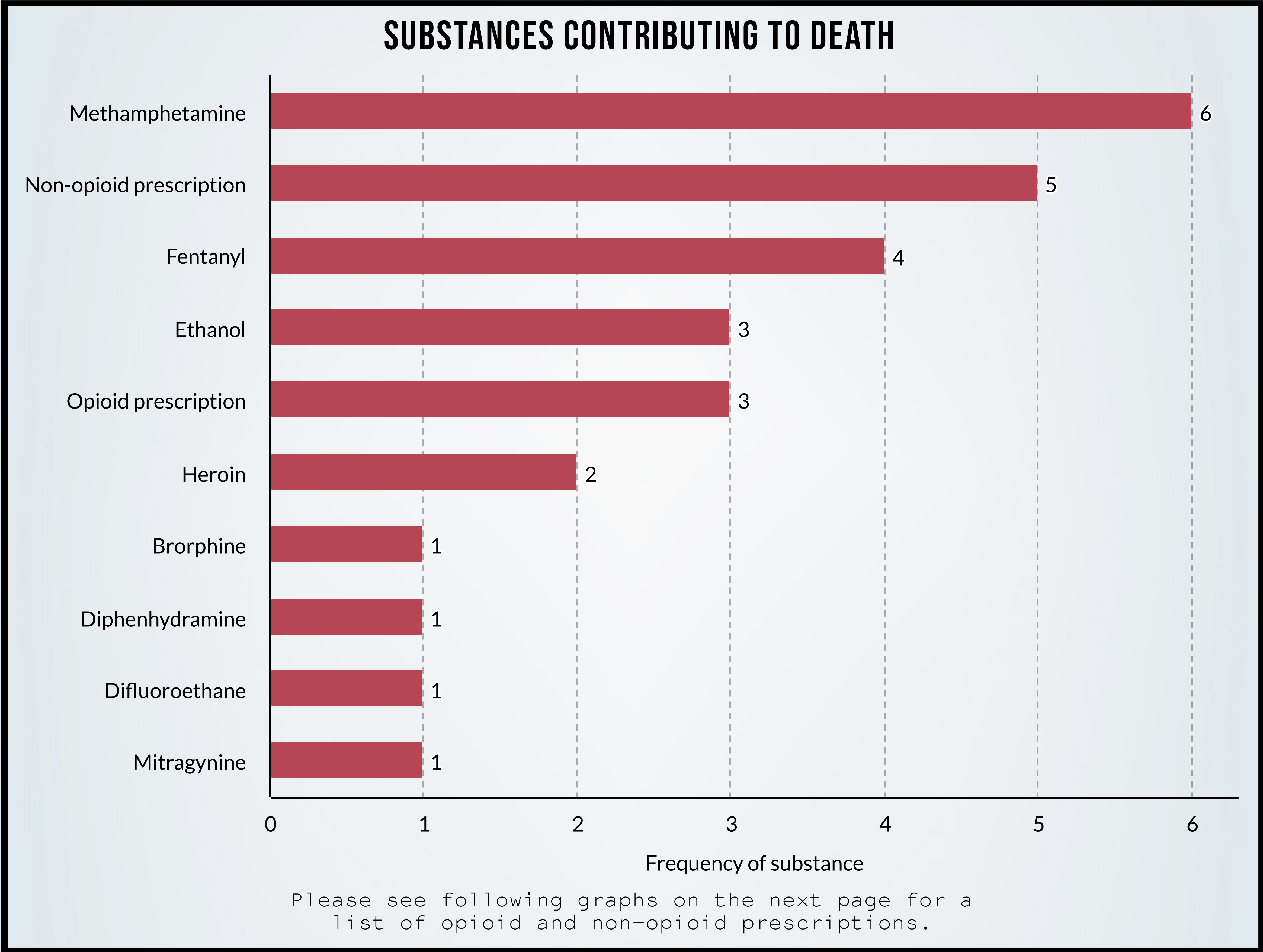
Autopsy and Toxicology Results



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Substance Breakdown



HEROIN & FENTANYL

- 2 decedents had heroin in their toxicology
- 1 of these decedents also had fentanyl in their toxicology

XYLAZINE & FENTANYL

- 0 decedents had xylazine in their toxicology
- NA of these decedents also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

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

METHAMPHETAMINE & OPIOIDS

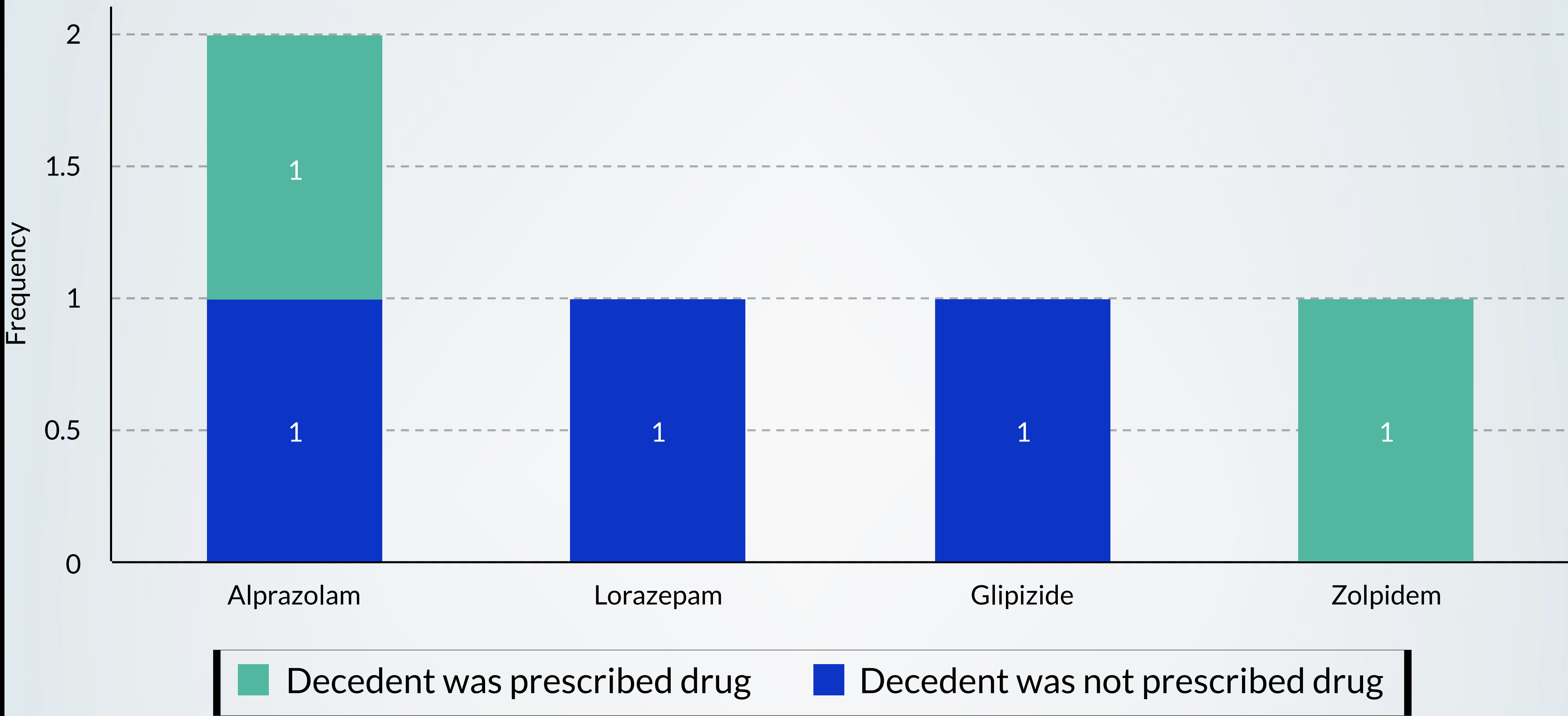
- 2 decedents had methamphetamine and opioid(s) in their toxicology
- 0 decedents had methamphetamine and heroin in their toxicology

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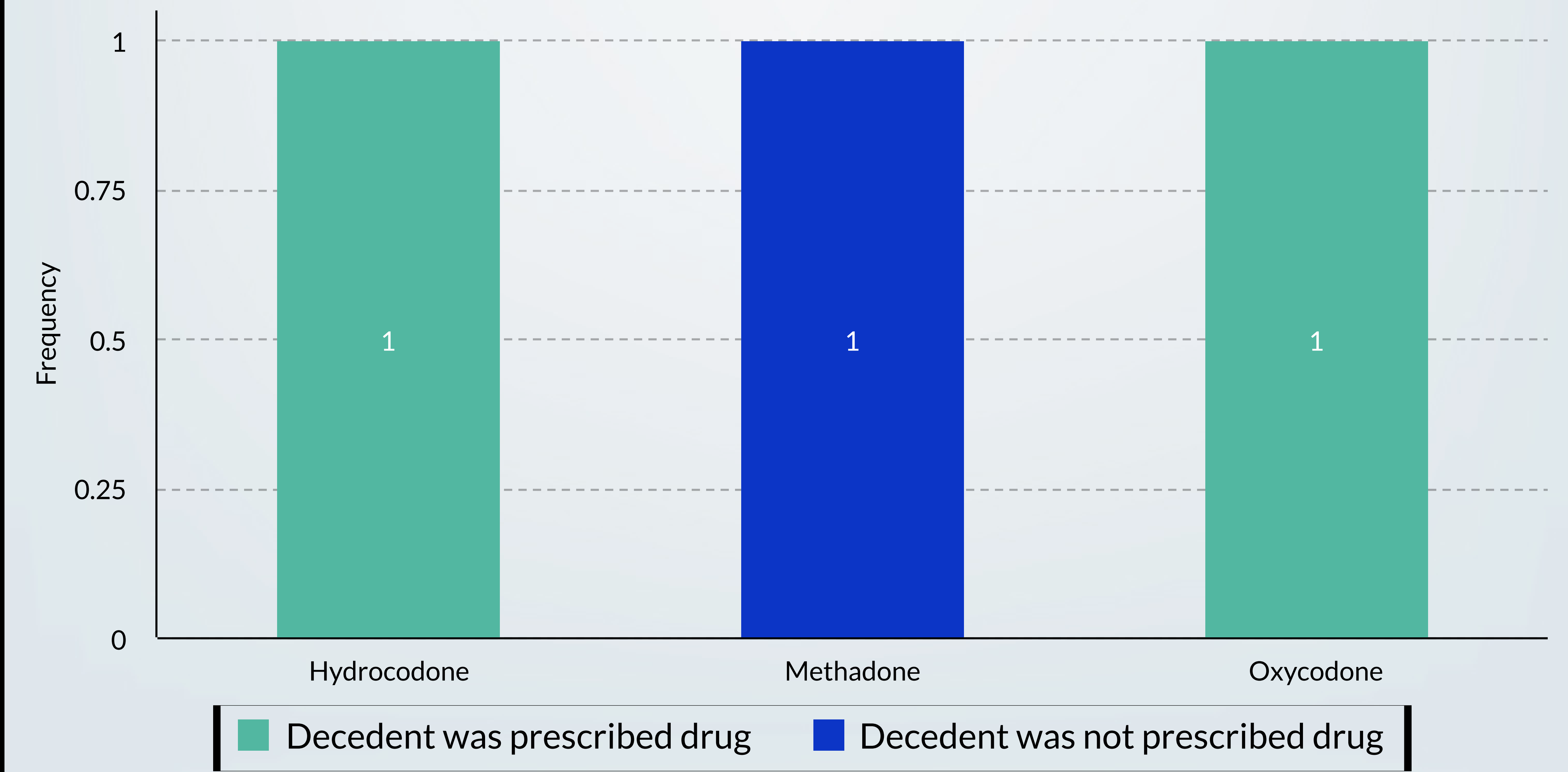
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Autopsy and Toxicology Results, cont.

NON-OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



Note: Of the 4 decedents with fentanyl present in their toxicology, 0 were prescribed fentanyl