

2020 ANNUAL REPORT

Deaths related to opioids and other drugs

Calhoun

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
18	W	F	Pt. I: Fentanyl, tramadol, cocaine, phentermine	49014
18	W	M	Pt. I: Amphetamine, methamphetamine, fentanyl	49068
26	W	M	Pt. I: Acetyl-fentanyl, amphetamine, fentanyl, xylazine	49015
26	W	F	Pt. I: Fentanyl, mitragynine, gabapentin, alprazolam	48917
28	W	M	Pt. I: Diazepam, alprazolam, olanzapine, quetiapine	49014
29	W	M	Pt. I: Fentanyl	49014
29	W	F	Pt. I: Methamphetamine, fentanyl, acetyl-fentanyl	49015
30	W	F	<i>Pt. II: Morphine, buprenorphine, diphenhydramine, fentanyl*</i>	49015
31	W	M	Pt. I: Fentanyl, heroin, ethanol	49015
32	W	M	Pt. I: Fentanyl, methamphetamine	49014
32	W	M	Pt. I: Fentanyl, methamphetamine, diphenhydramine	49037
33	W	M	Pt. I: Fentanyl	49017
33	B	F	Pt. I: Cocaine, ethanol, cocaethylene, methamphetamine, fentanyl, promethazine	49014
35	W	F	Pt. I: Acetyl-fentanyl, diphenhydramine, fentanyl, methamphetamine, morphine, norbuprenorphine, xylazine	49015
35	W	F	<i>Pt. II: Amphetamine, methamphetamine, fentanyl*</i>	49015
35	W	F	Pt. I: Gabapentin, ketamine	49017
36	W	F	Pt. I: Methamphetamine	49015
37	W	M	Pt. I: Methamphetamine, fentanyl	49014
37	W	M	Pt. I: Fentanyl, heroin, methamphetamine	49015
38	W	F	Pt. I: Cocaine, methadone, tramadol, fentanyl	49014
38	W	M	Pt. I: Fentanyl, diphenhydramine	49015
40	W	M	Pt. I: Fentanyl, acetyl-fentanyl	49014
42	W	M	Pt. I: Fentanyl, clonazepam	49224
43	W	F	Pt. I: Cocaine, fentanyl, bupropion, gabapentin, trazodone	49014
43	W	M	Pt. I: Fentanyl, cocaine	49017
44	W	M	Pt. I: Heroin	49016
45	W	M	Pt. I: Dihydrocodeine, fentanyl, hydrocodone	49017
45	B	M	Pt. I: Fentanyl, heroin	49014

Deaths Related to Opioids and Other Drugs

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All Drug-Related Deaths (cont.)

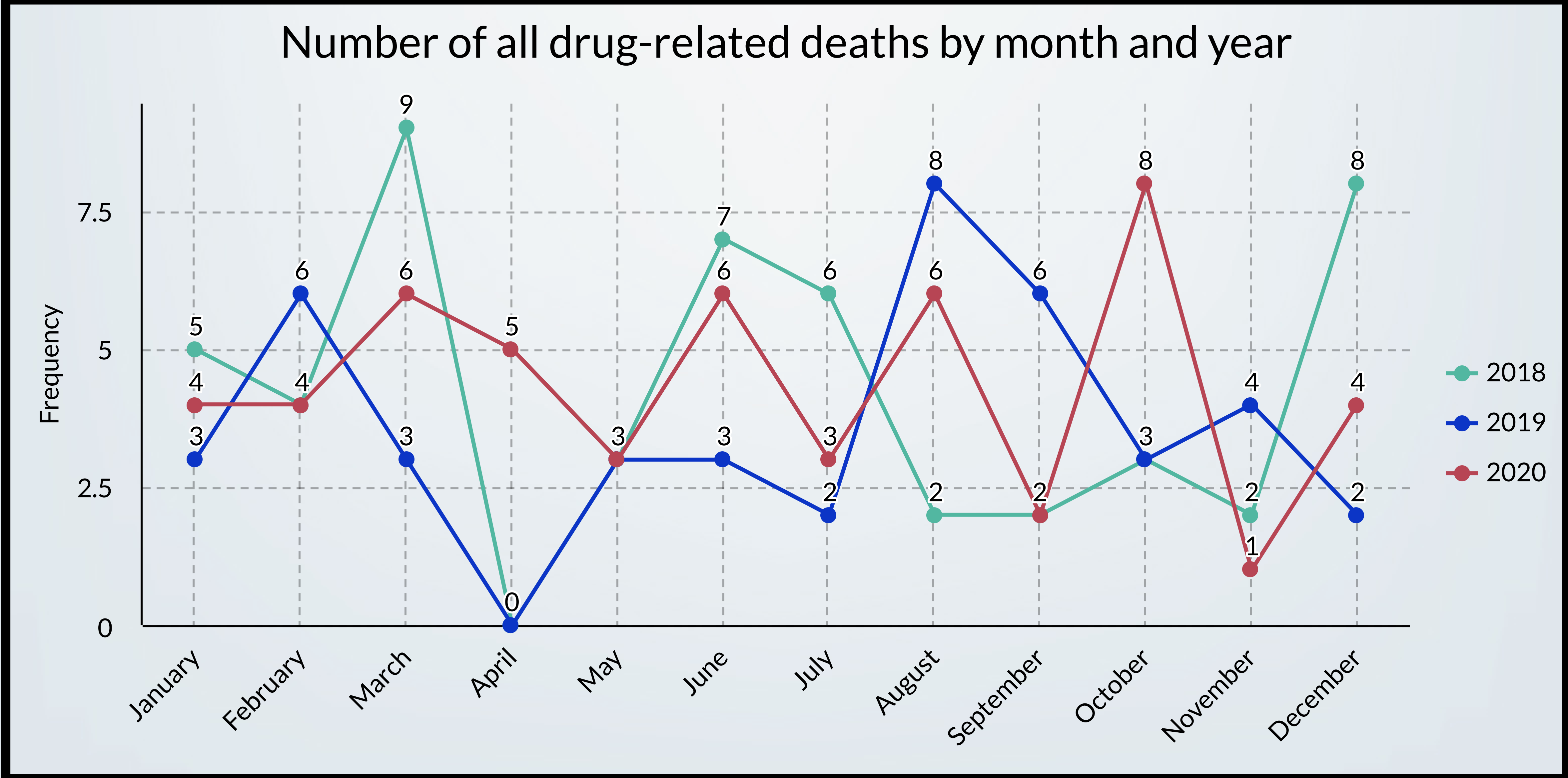
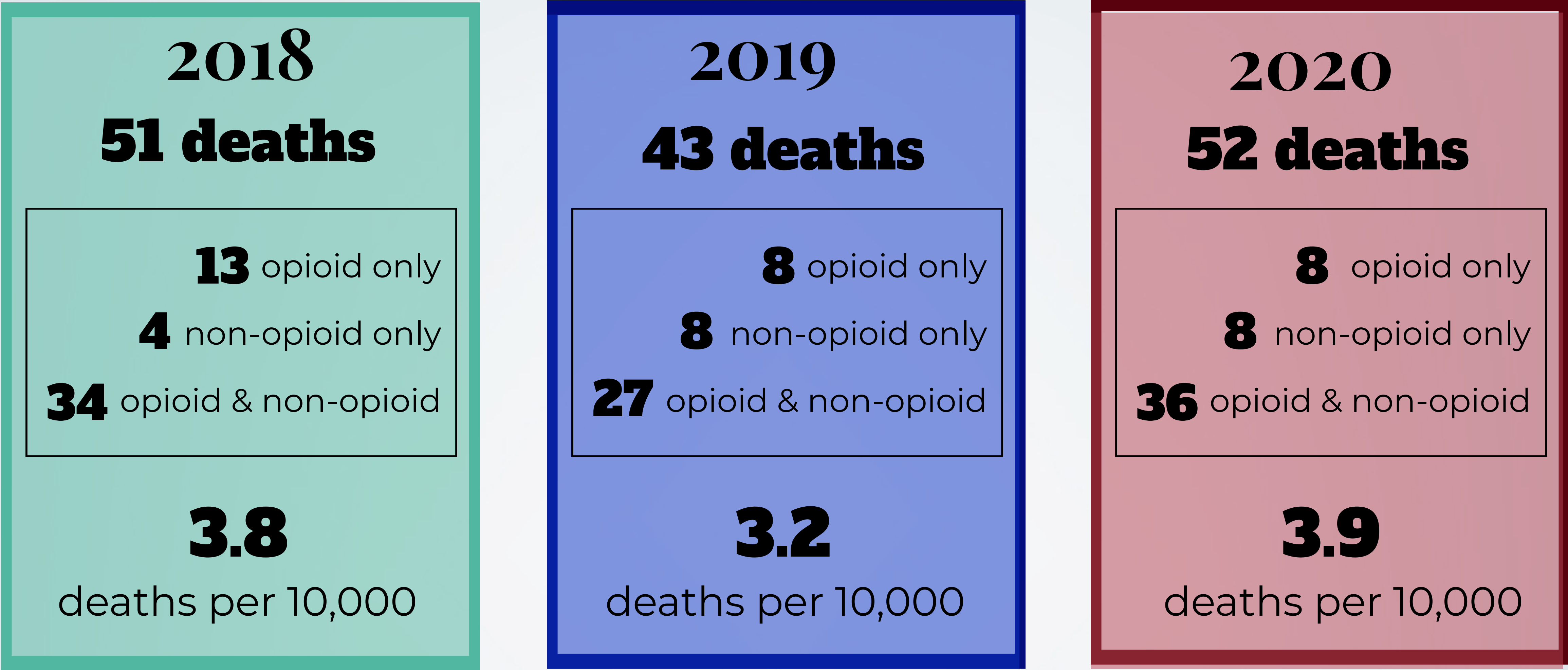
45	W	M	Pt. I: Fentanyl, methamphetamine	49015
47	W	F	Pt. I: Alprazolam, gabapentin, promethazine, tramadol	49017
50	W	M	Pt. I: Ethanol, clonazepam, morphine, fentanyl	49014
52	W	M	Pt. I: Heroin, fentanyl, mitragynine, ethanol	49017
52	B	F	Pt. I: Cocaine	Unknown
52	W	M	Pt. I: Methamphetamine, fentanyl, ethanol	49068
52	W	M	Pt. I: Methamphetamine, fentanyl	49014
54	W	M	Pt. I: Heroin, fentanyl, methamphetamine	49014
54	W	M	Pt. I: Fentanyl, clonazepam	49017
54	W	M	Pt. I: Morphine, amphetamine, fentanyl	Unknown
55	B	F	Pt. I: Cocaine, codeine, fentanyl	49037
56	W	F	Pt. I: Fentanyl, heroin, amitriptyline	49037
56	W	M	Pt. I: Fentanyl, oxycodone, trazodone, promethazine	49068
57	W	M	Pt. I: Sertraline, tramadol, gabapentin, trazodone, diphenhydramine	49015
58	W	M	Pt. I: Fentanyl, acetyl-fentanyl, hydroxyzine, quetiapine, risperidone	49015
59	W	F	Pt. I: Fentanyl, oxycodone	49201
60	W	M	Pt. I: Cocaine, fentanyl, heroin, methamphetamine	49015
60	B	M	Pt. I: Cocaine, ethanol, fentanyl	49017
61	W	M	Pt. I: Fentanyl, mirtazapine	49017
62	W	M	Pt. I: Fentanyl, heroin, ethanol	49017
63	B	M	Pt. I: Cocaine, fentanyl, ethanol	49037
63	B	M	Pt. I: Cocaine	49017
65	B	M	Pt. I: Fentanyl, morphine, hydrocodone	49017
69	W	M	Pt. I: Cocaine	49015
70	W	M	Pt. I: Cocaine	49015
75	B	M	Pt. I: Methamphetamine, ethanol	49017

* Case is not included in the following report

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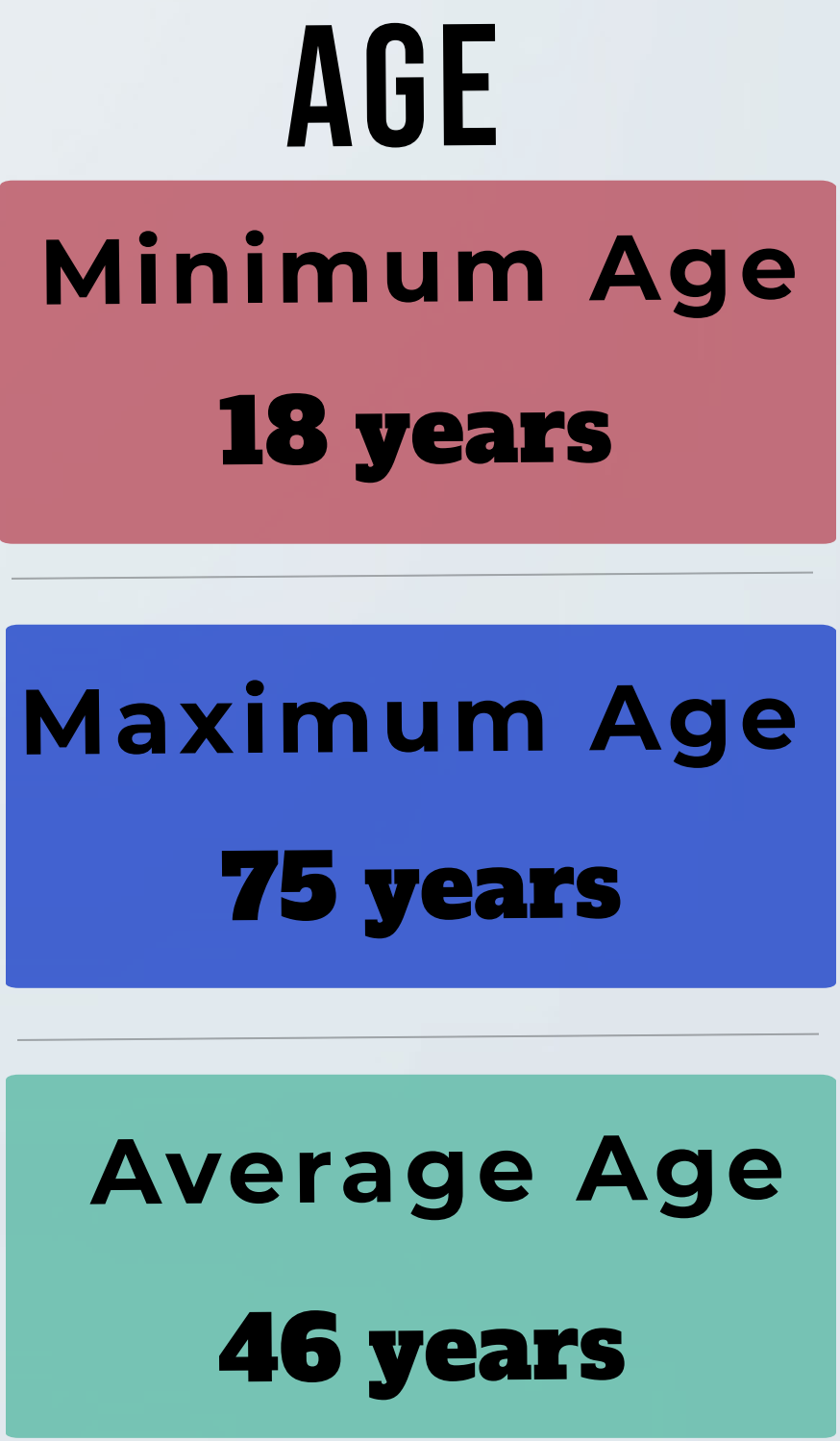
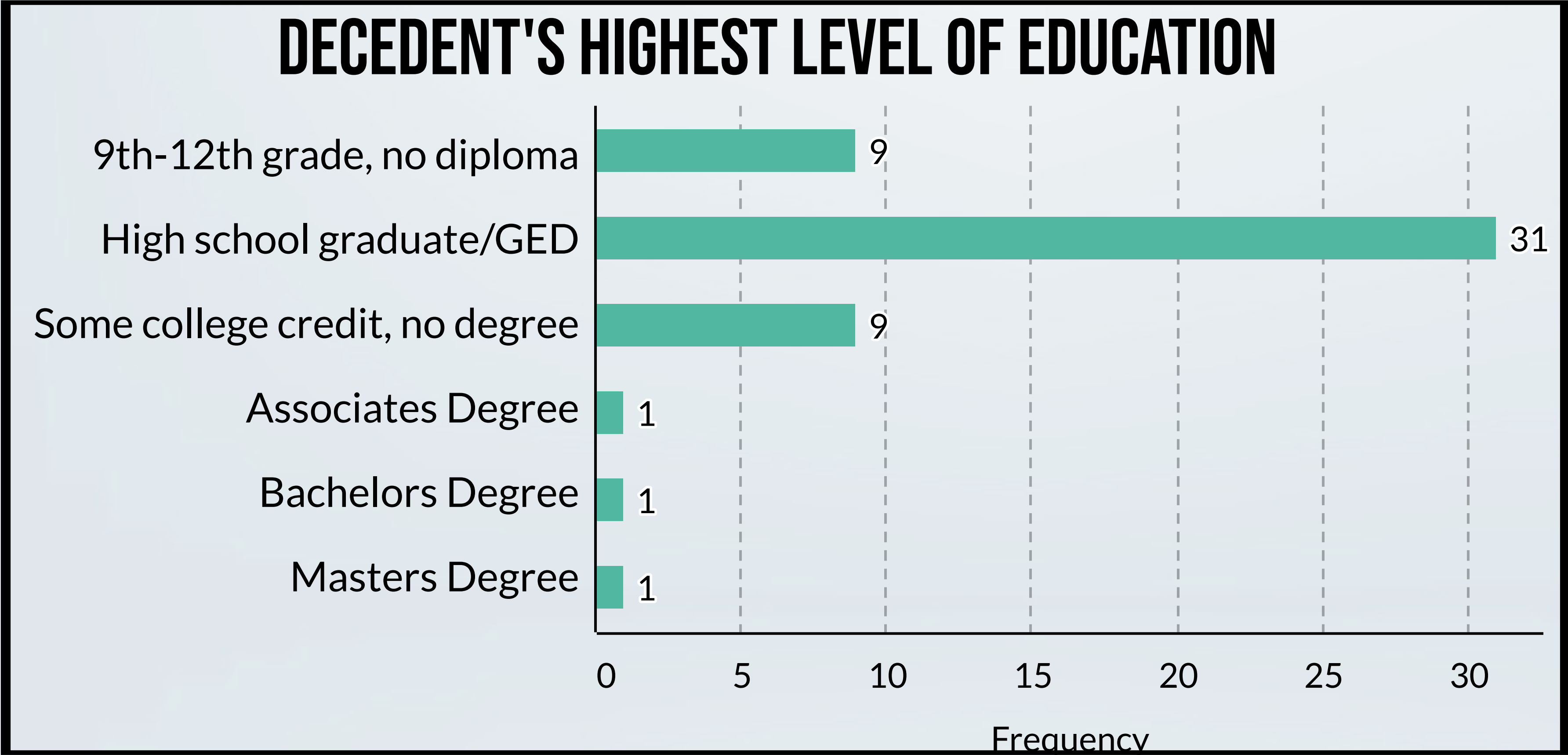
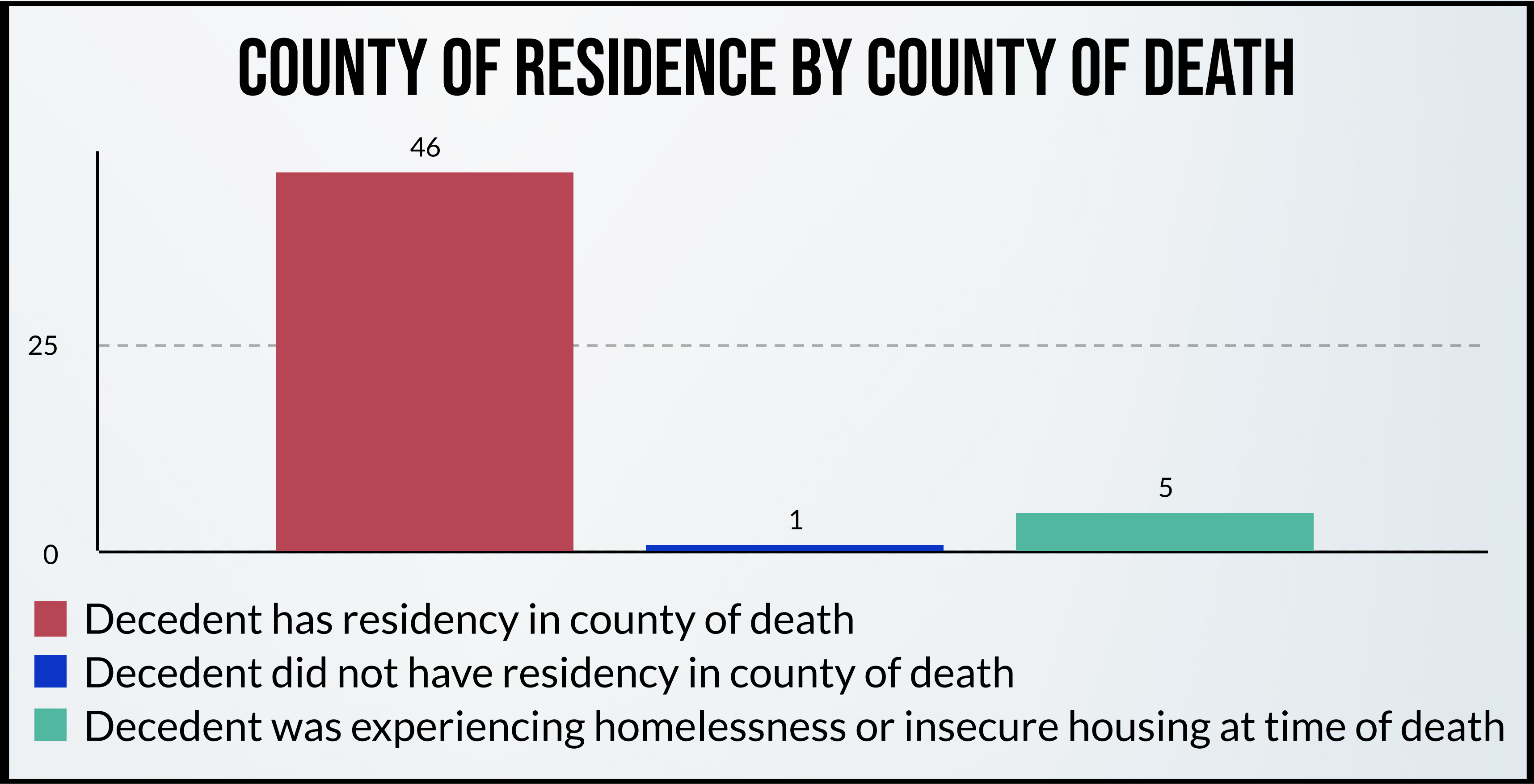
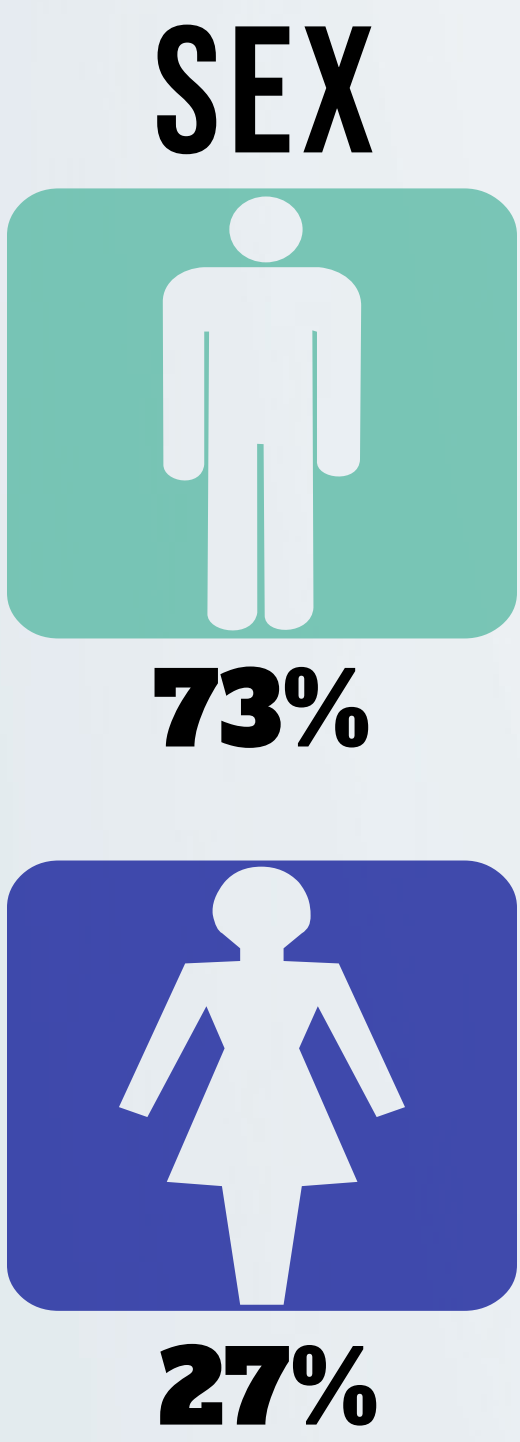
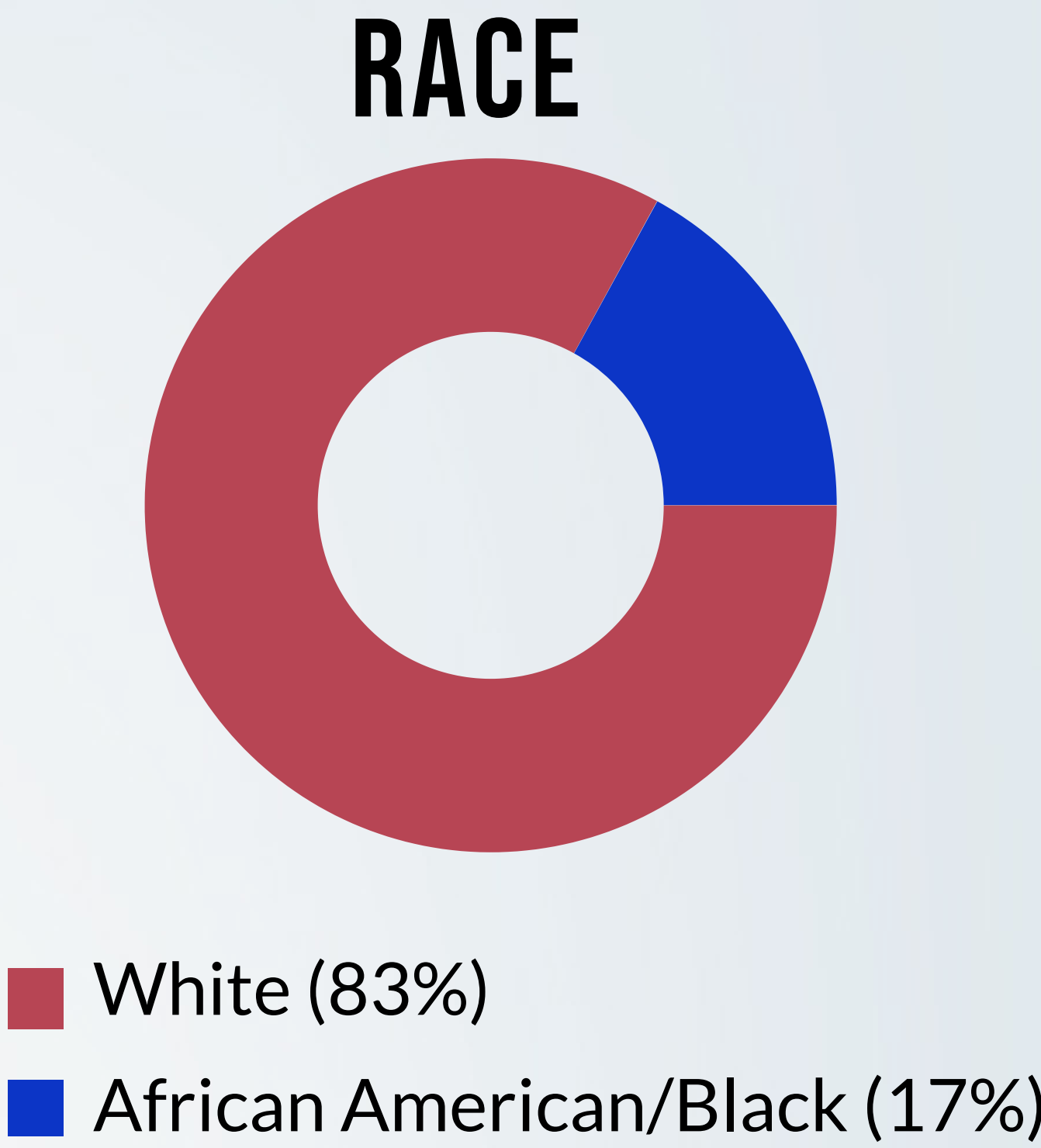
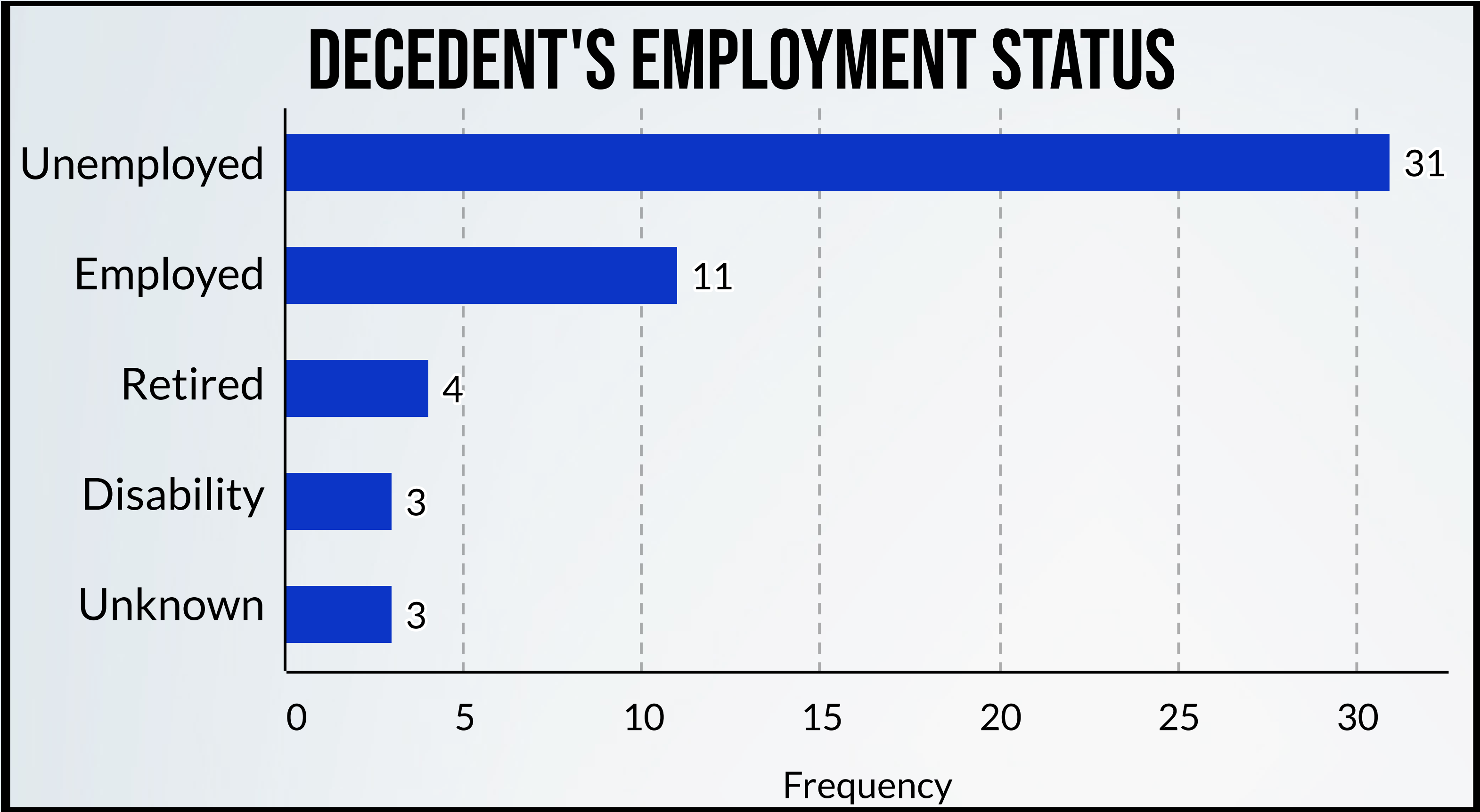
Total deaths due to drugs: 2018, 2019, 2020



Deaths Related to Opioids and Other Drugs

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Demographics



Deaths Related to Opioids and Other Drugs

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Health Factors

MOST PREVALENT AILMENTS*

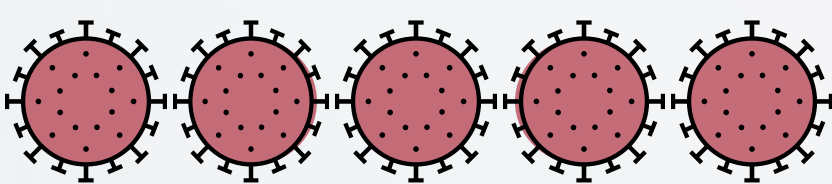
Hypertension (31%)

Chronic pain (21%)

Lungs** (17%)

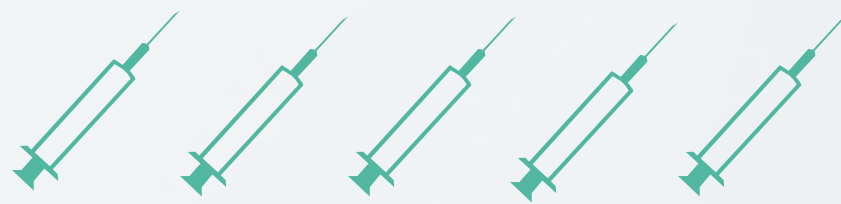
Heart*** (12%)

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



At least 9 decedents were
Hepatitis C positive

7 of these decedents were
known to use
substances intravenously



Decedent
used
tobacco

71%+



Decedent
drank
alcohol

54%+

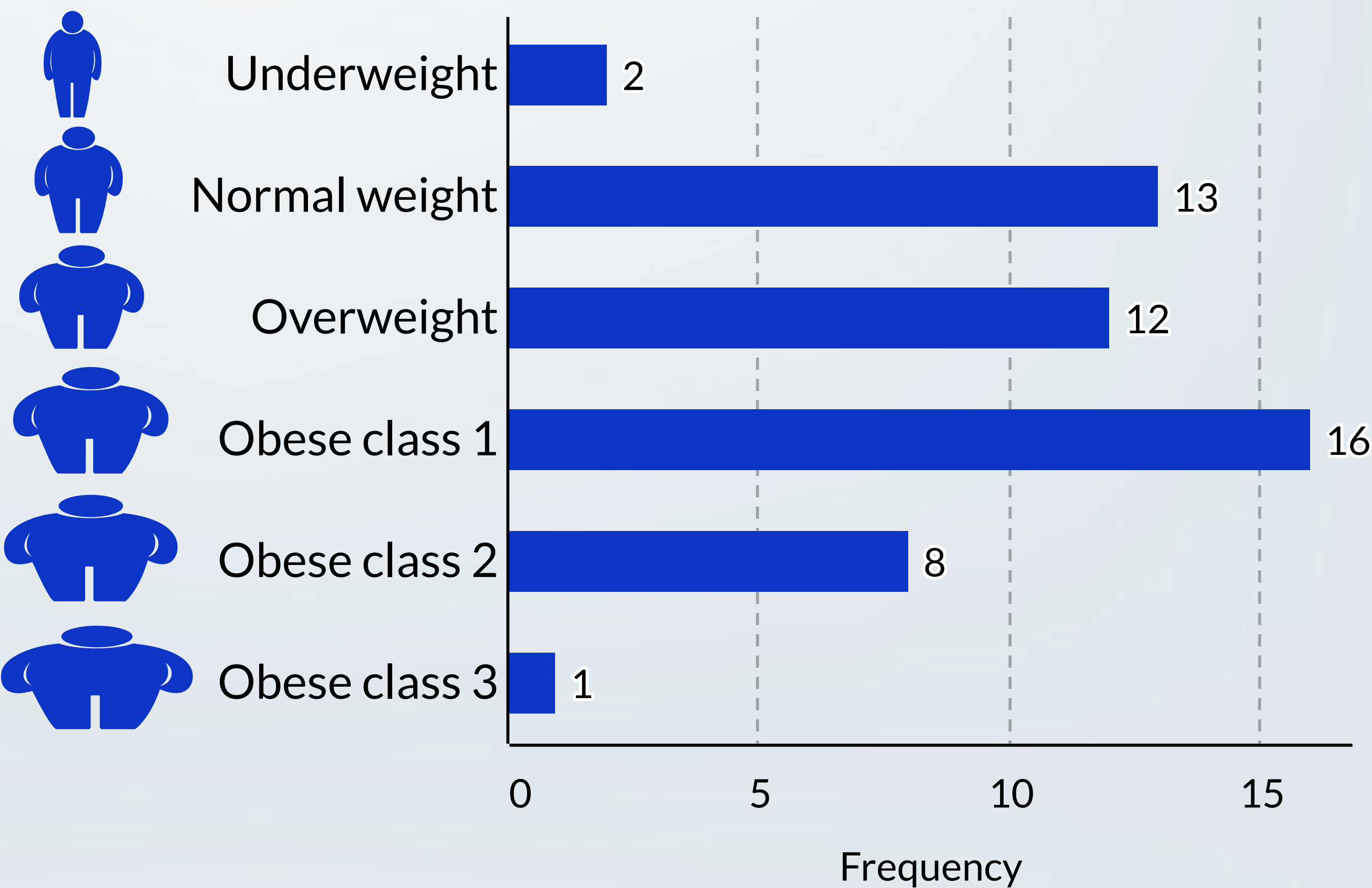


Decedent
had
a PCP

50%



BODY MASS INDEX (BMI)



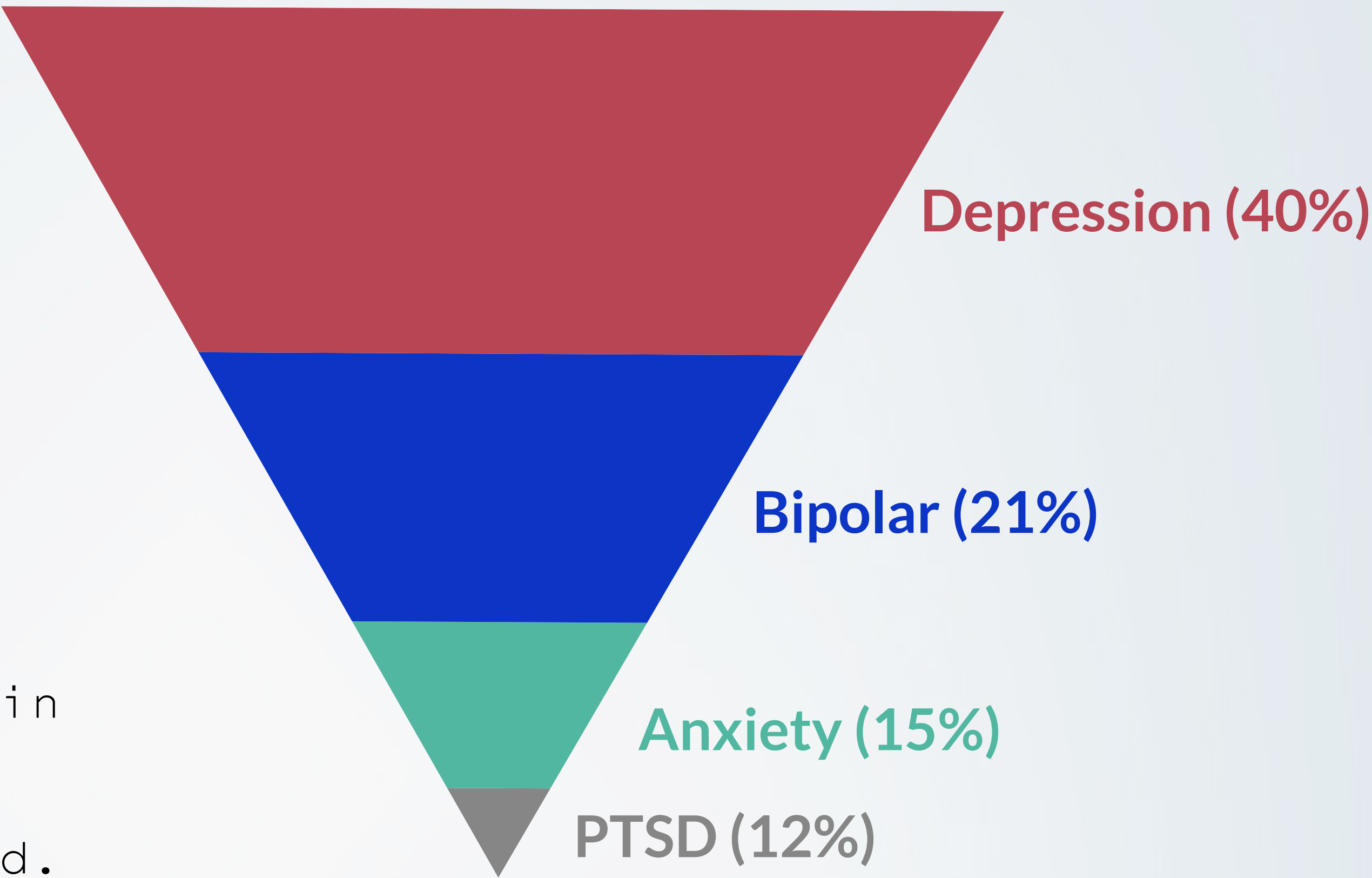
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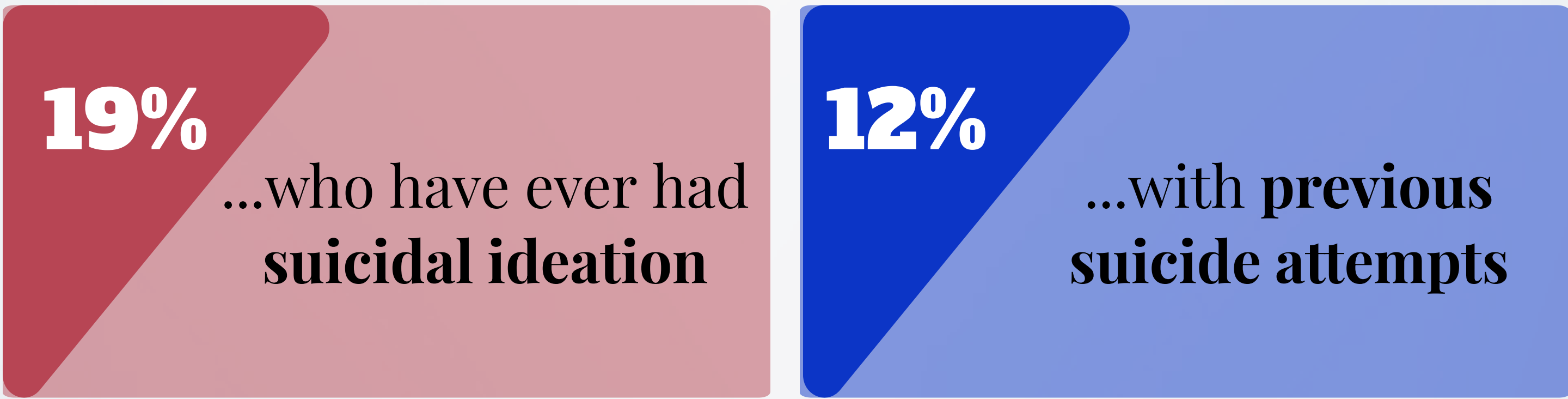
Mental Health Factors

MOST
PREVALENT
MENTAL ILLNESSES*

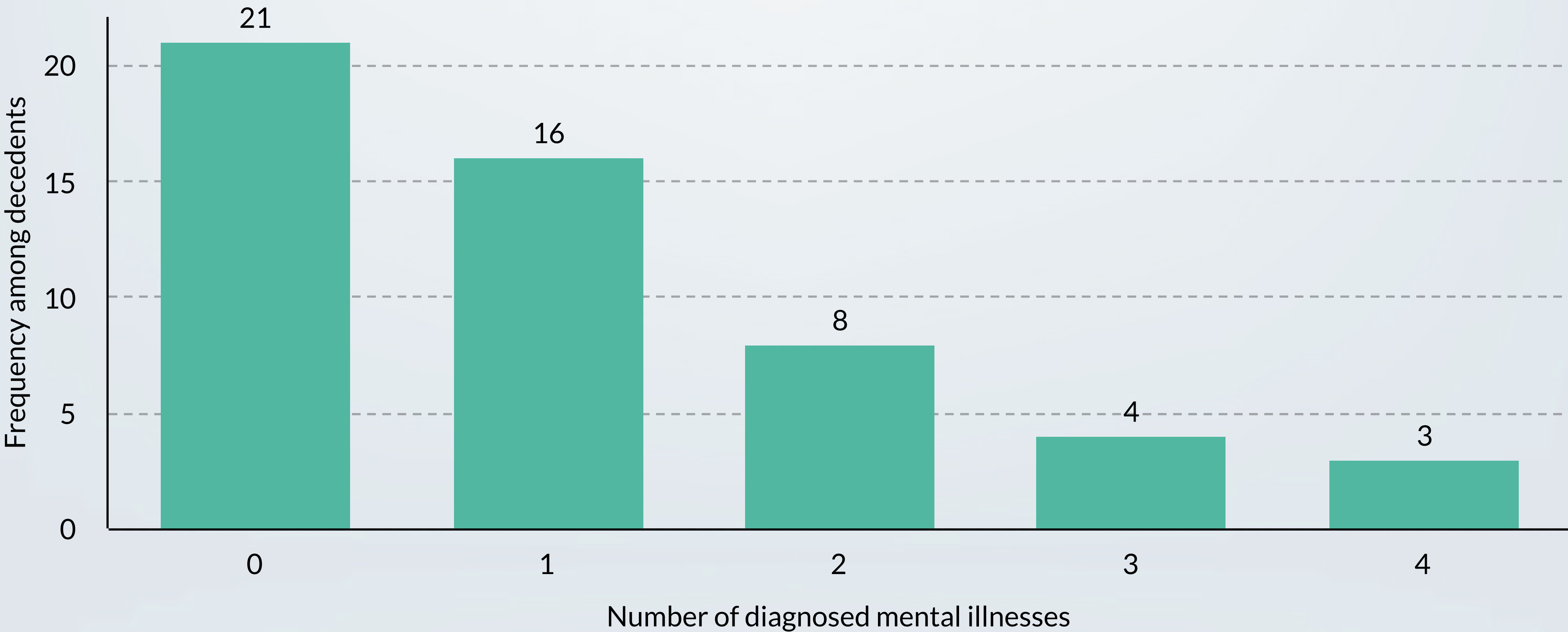
*Decedents may be represented in more than one category. Only mental illnesses with official diagnosis are included.



PERCENTAGE OF DECEDENTS...



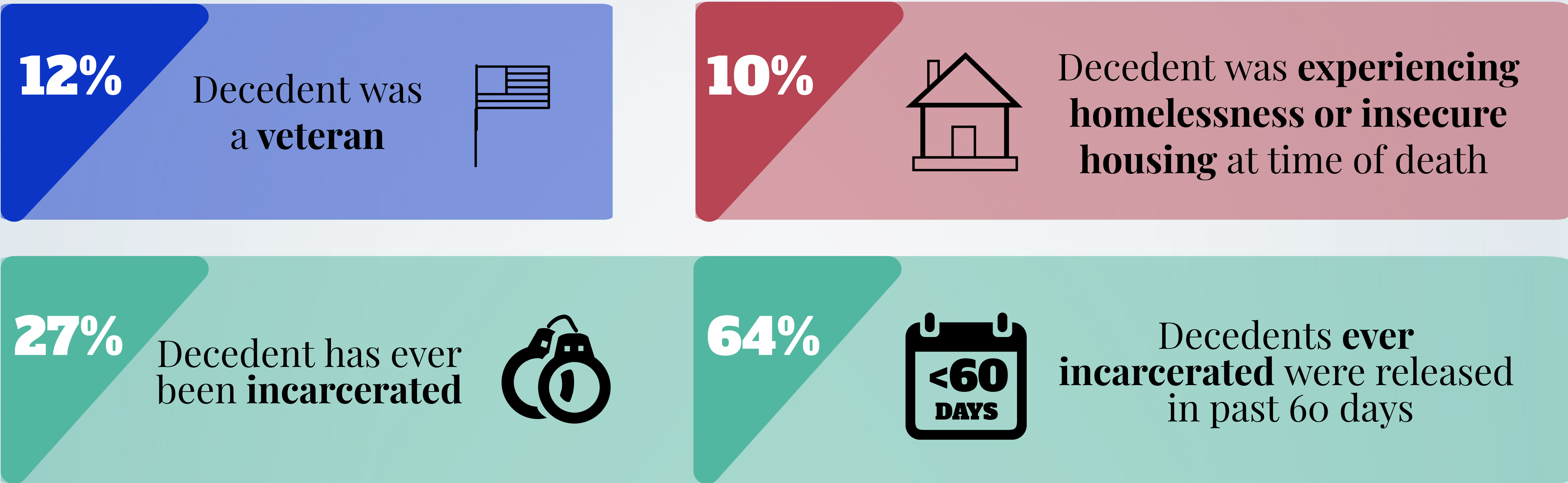
NUMBER DIAGNOSED MENTAL ILLNESSES AMONG DECEDENTS



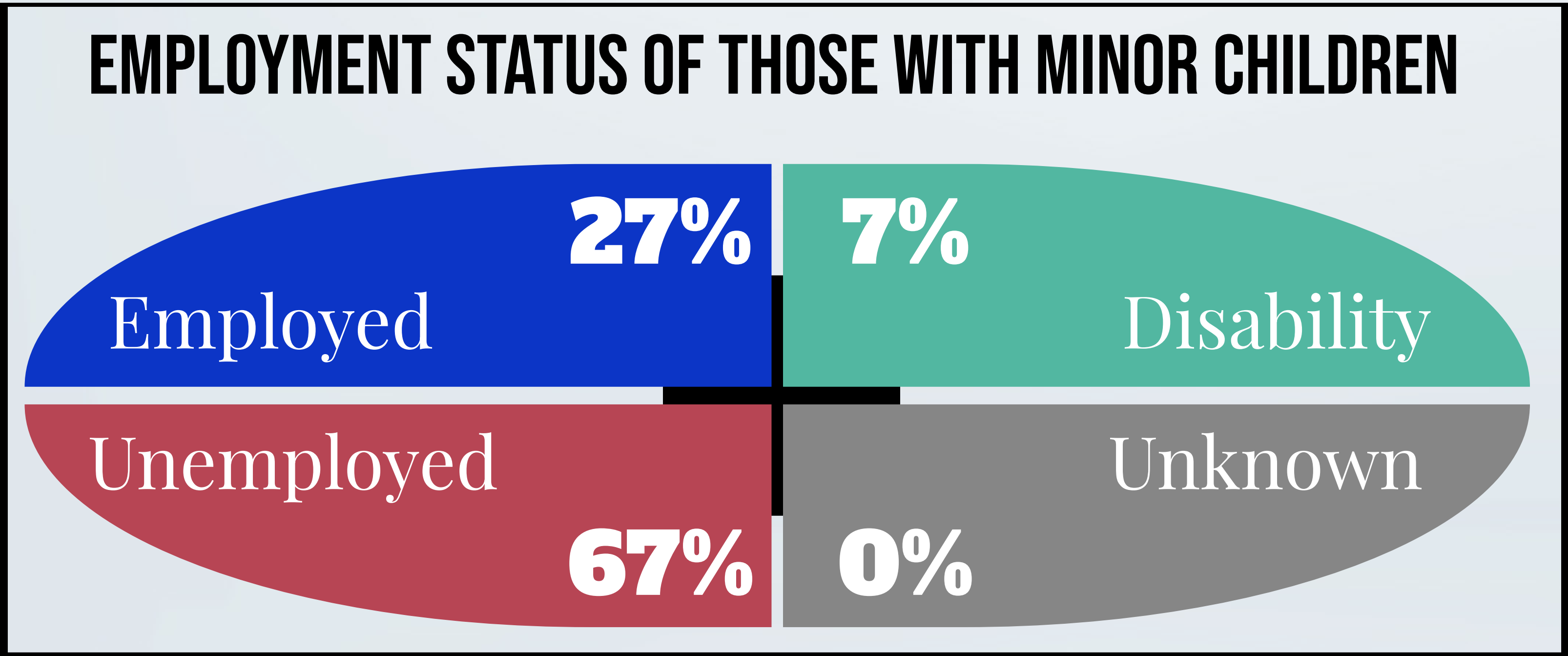
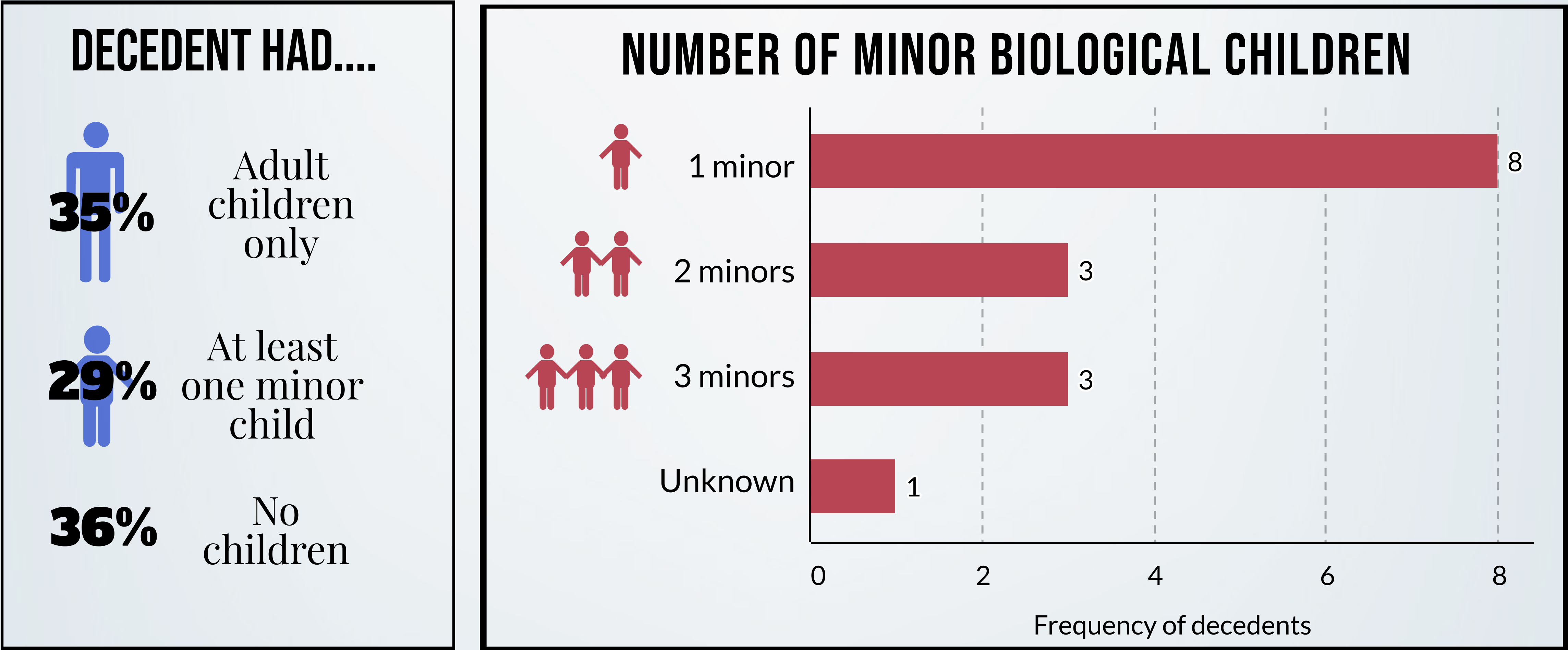
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Social Factors



Children

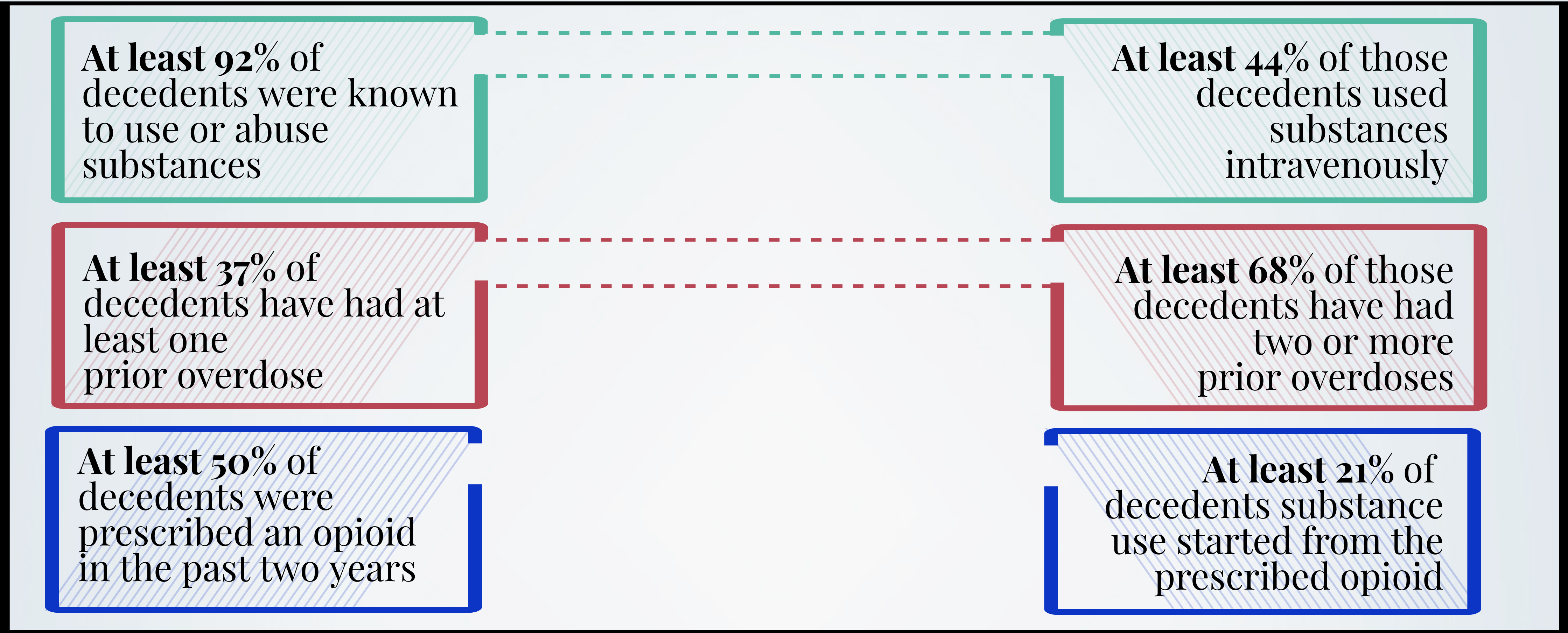


4 decedents lived with their minor child(ren) at time of death

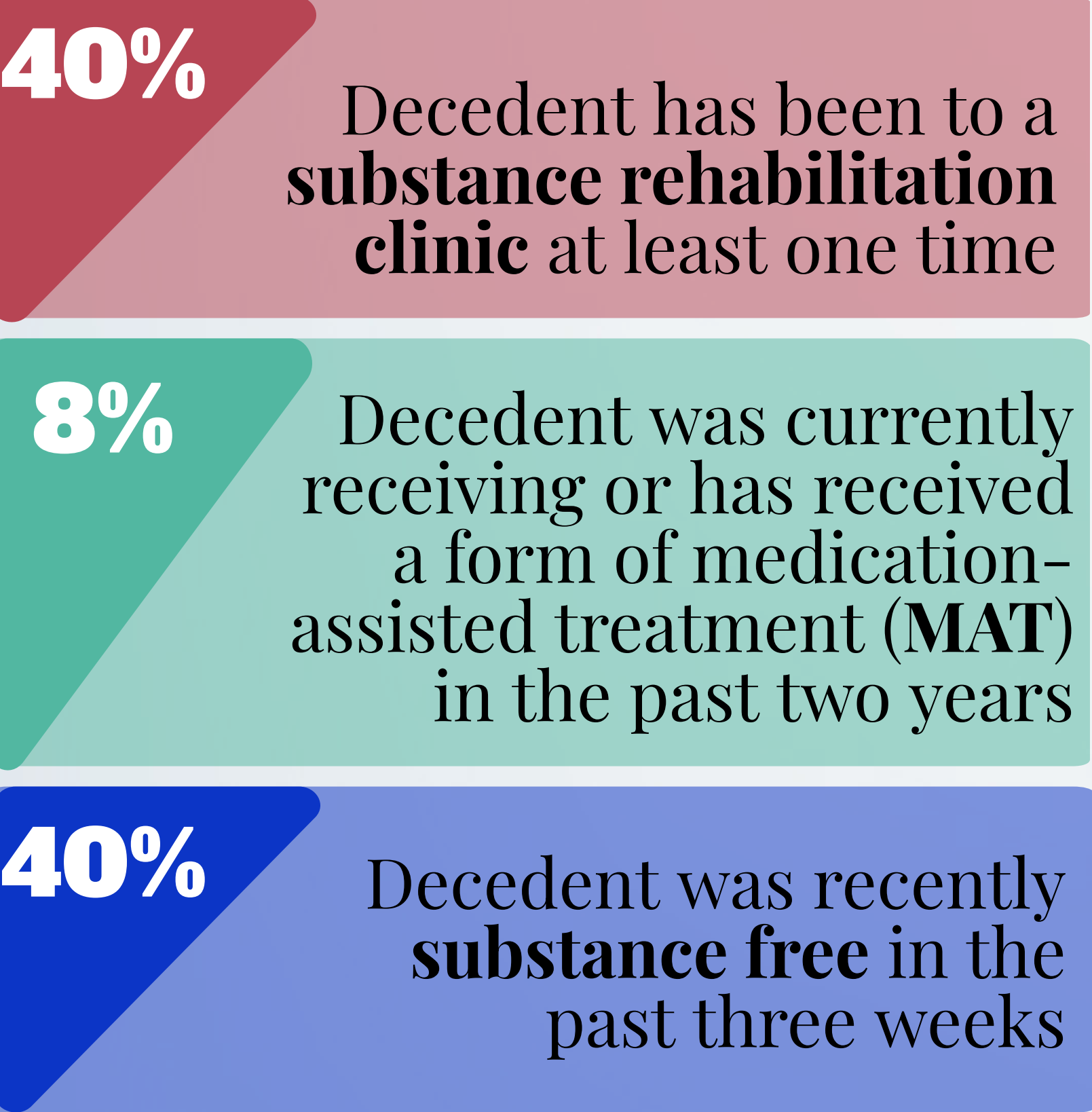
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Substance Use History



RECOVERY HISTORY (N=48*)



SUSPECTED REASONS FOR RELAPSE**

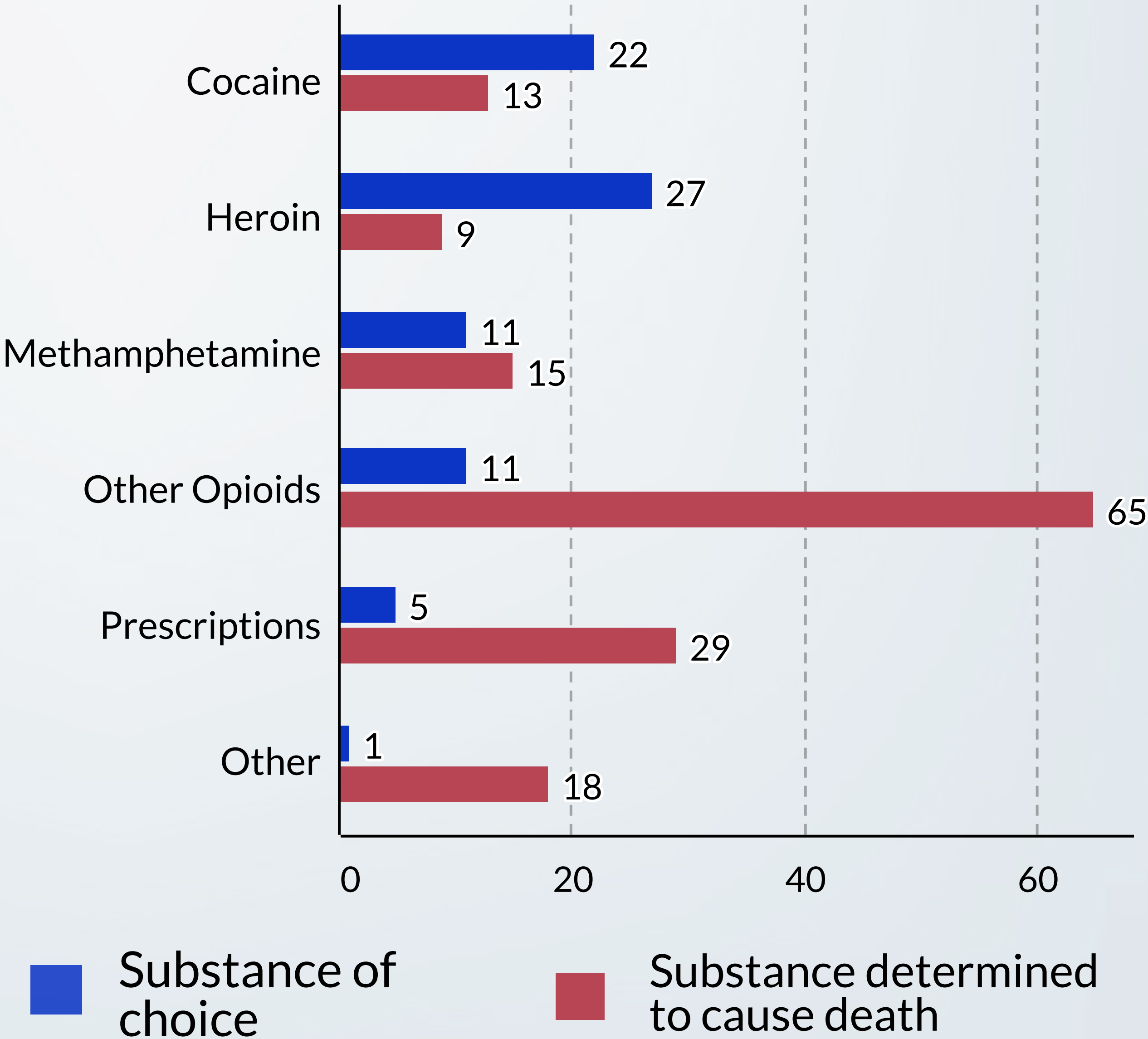


*ONLY decedents known to use substances are included.

**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 friend, depression, traumatic motor vehicle accident, and 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: 2 decedents would use any substance available and 4 were not known to use substances.

Prescriptions does not include opioids.

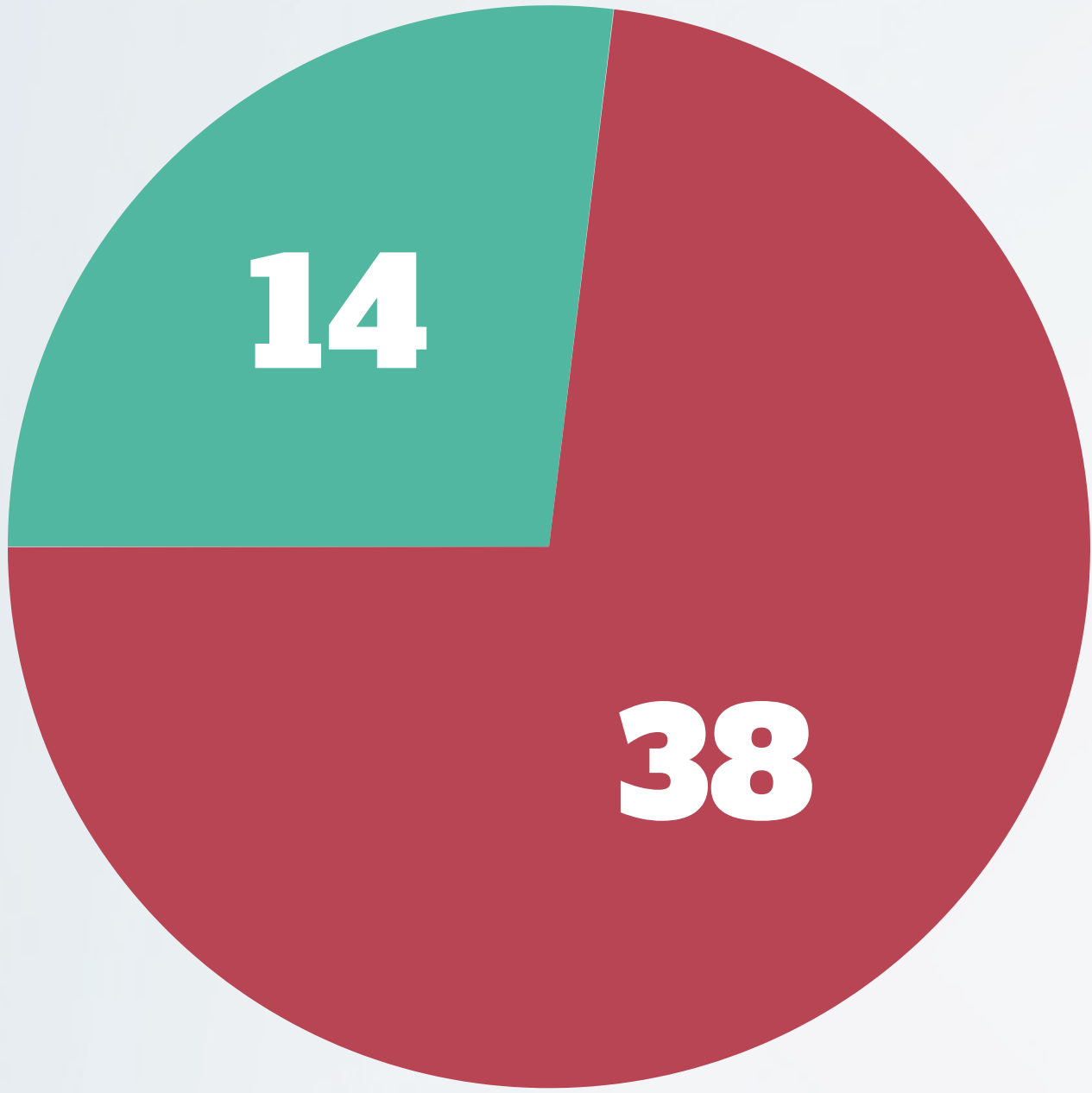
Other includes cocaethylene, diphenhydramine, ethanol, hydroxyzine, ketamine, mitragynine, and xylazine.

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Naloxone Administration

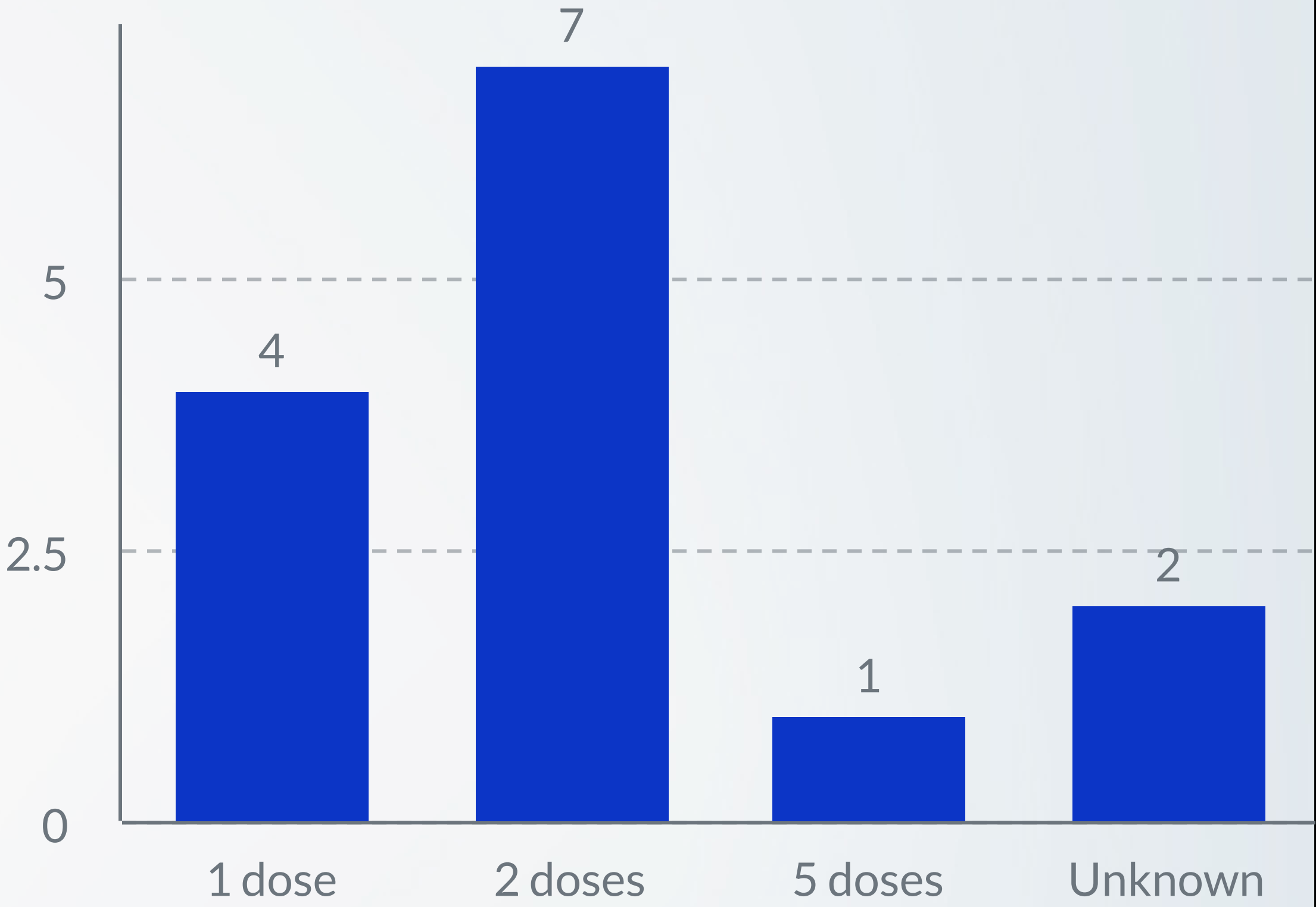
NALOXONE ADMINISTRATION STATUS



Naloxone administered

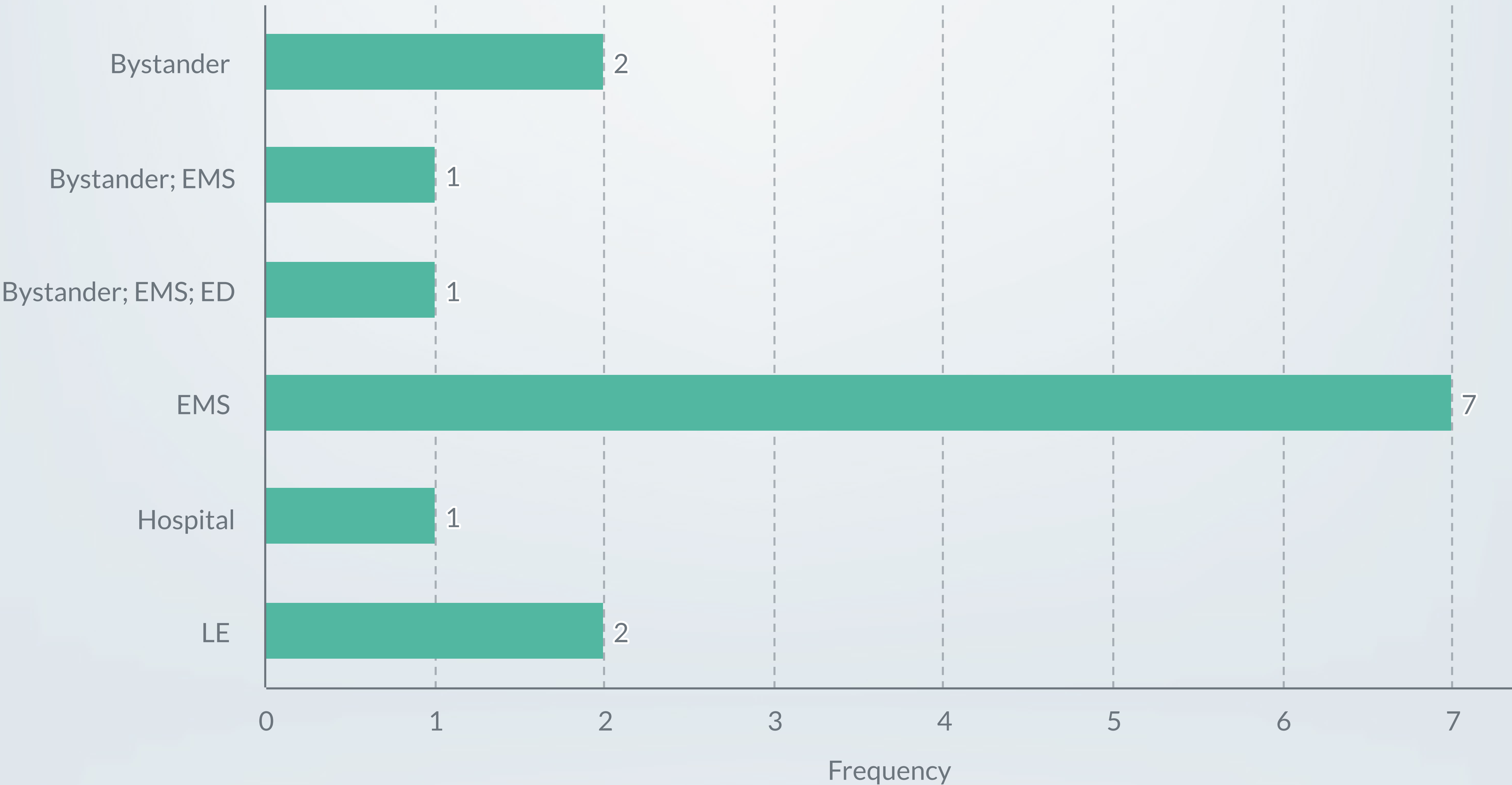
No Naloxone administered

HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED



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

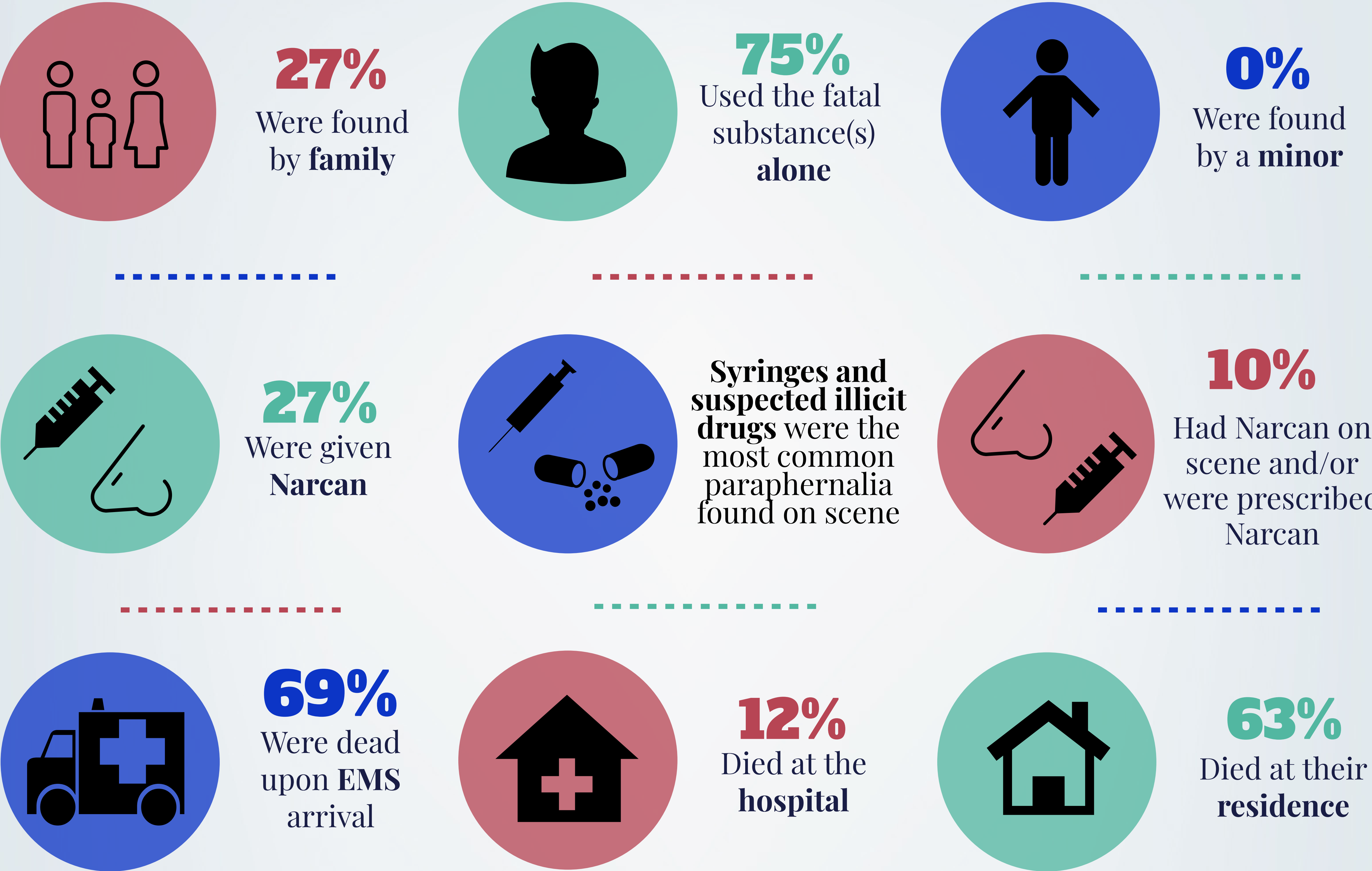
WHO ADMINISTERED NALOXONE?



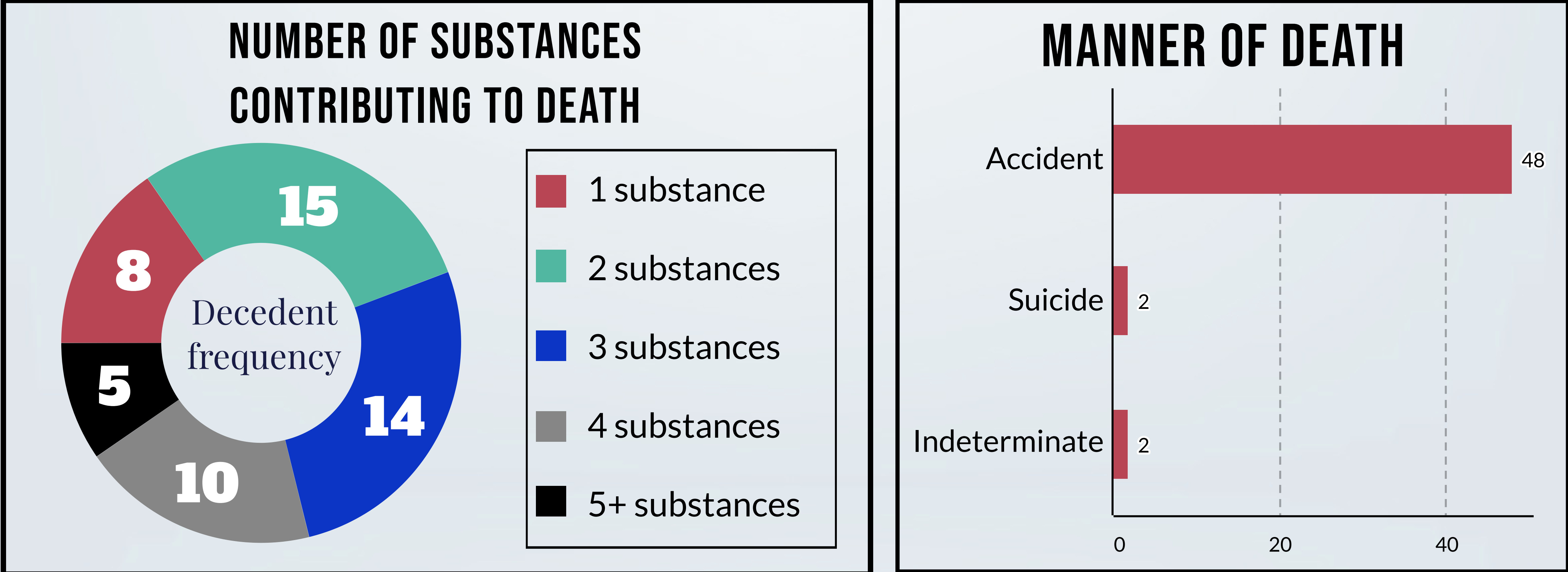
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Death Scene Findings



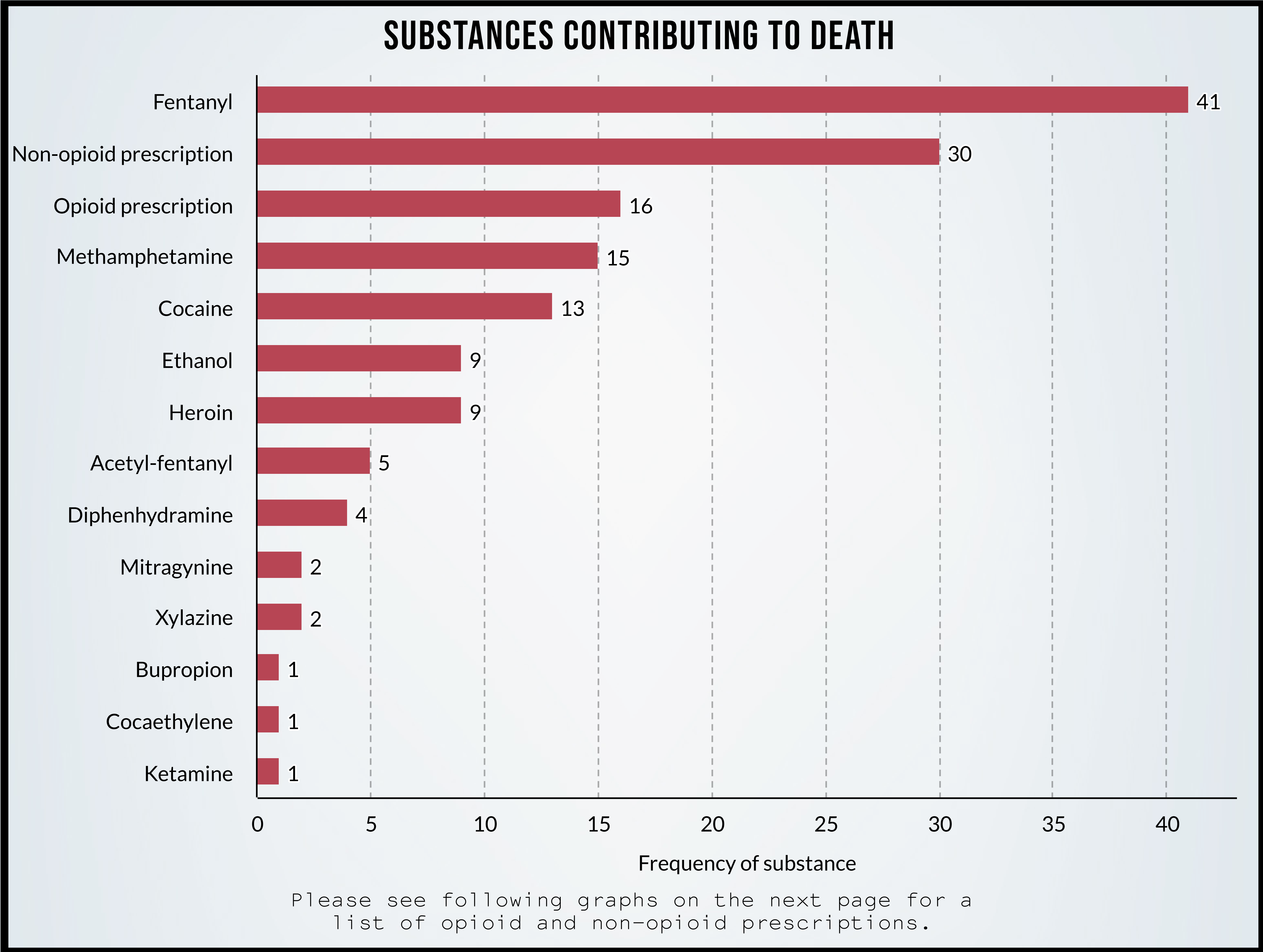
Autopsy and Toxicology Results



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Substance Breakdown



HEROIN & FENTANYL

- 9 decedents had heroin in their toxicology
- 8 of these decedents also had fentanyl in their toxicology

XYLAZINE & FENTANYL

- 2 decedents had xylazine in their toxicology
- Both of these decedents also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

- 6 decedents had a benzodiazepine and an opioid in their toxicology
- 5 decedents were prescribed that opioid and benzodiazepine

METHAMPHETAMINE & OPIOIDS

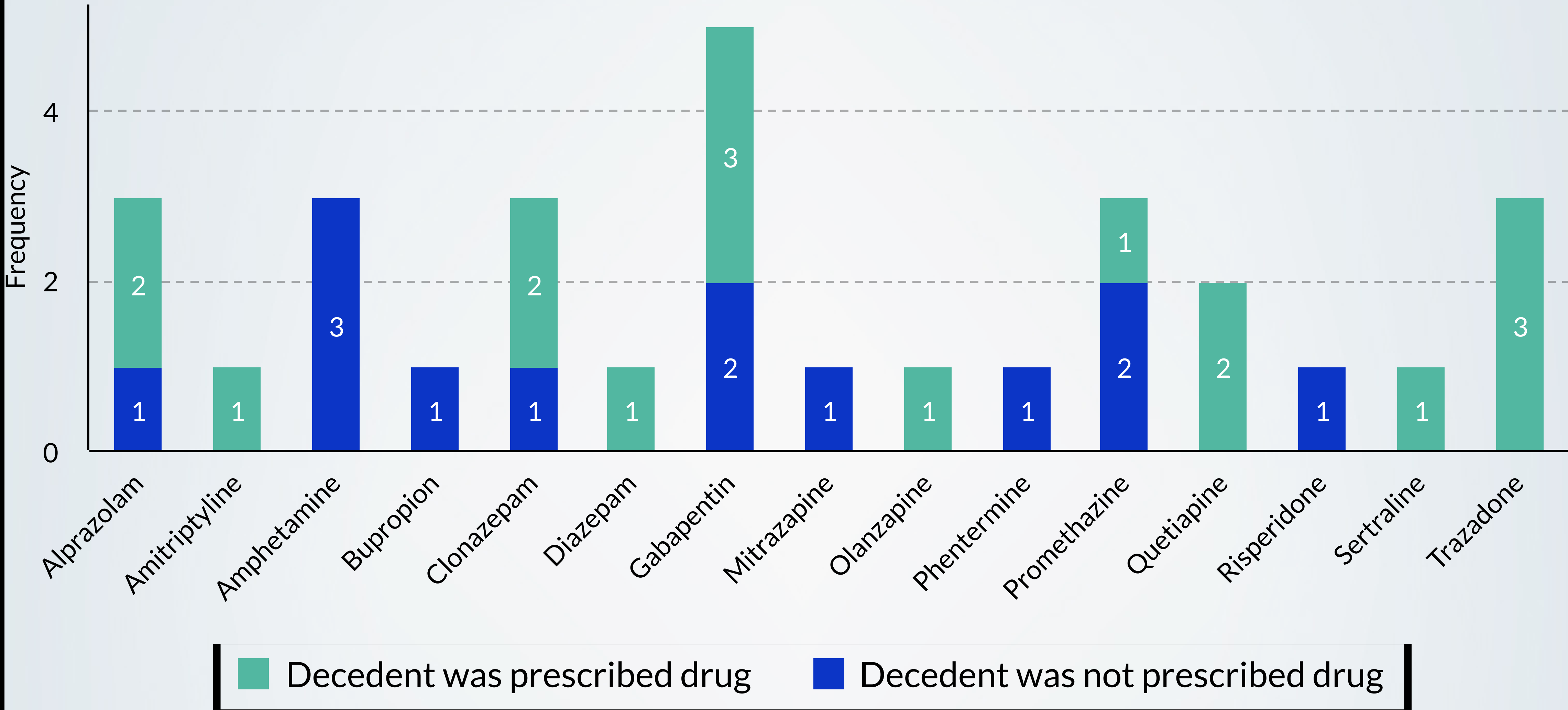
- 13 decedents had methamphetamine and opioid(s) in their toxicology
- 3 decedents had methamphetamine and heroin in their toxicology

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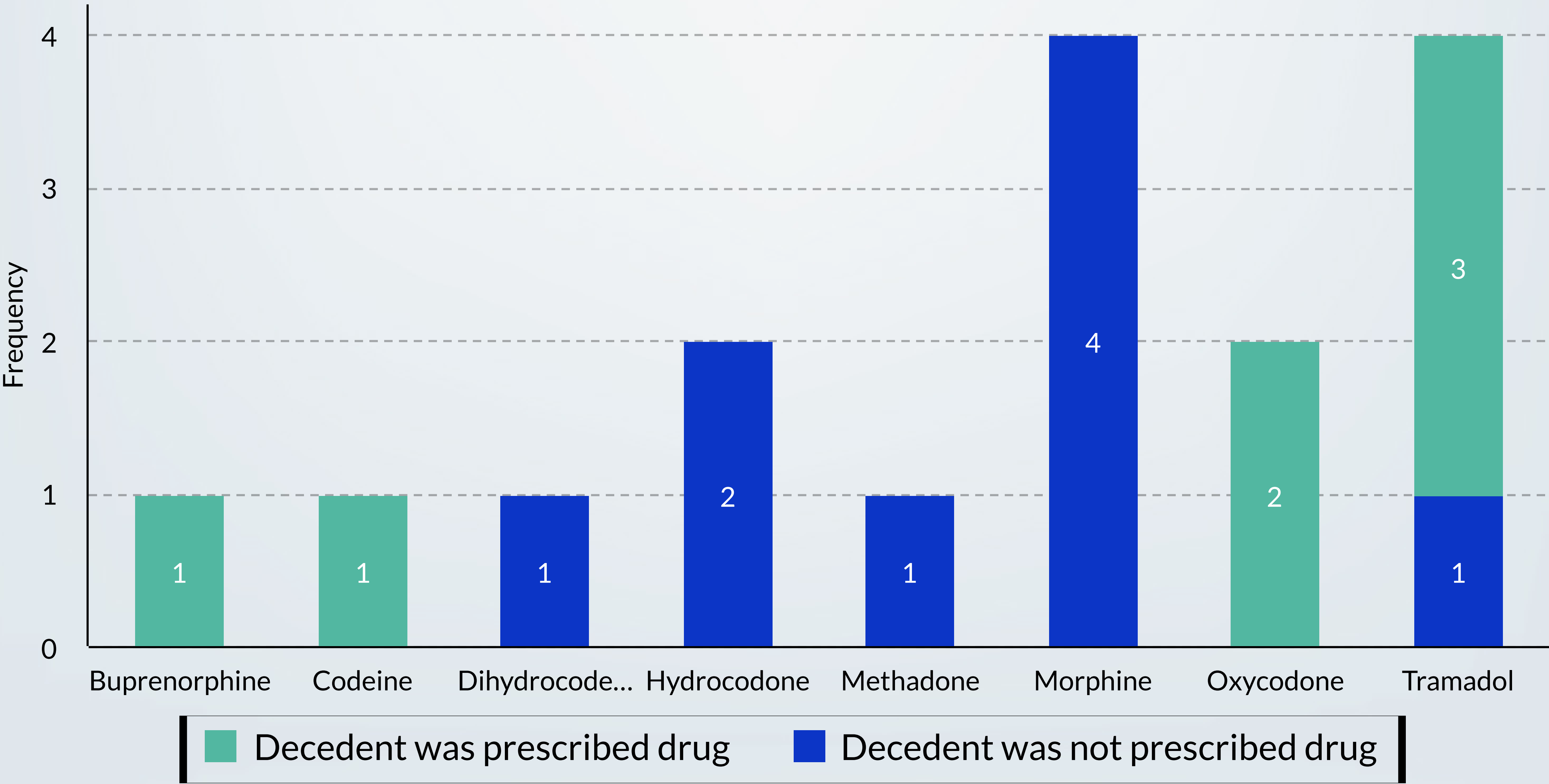
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Autopsy and Toxicology Results, cont.

NON-OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



OPIOID PRESCRIPTIONS PRESENT IN TOXICOLOGY



Note: Of the 41 decedents with fentanyl present in their toxicology, 2 were prescribed fentanyl