2020 ANNUAL REPORT

Deaths related to opioids and other drugs

Muskegon

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.

Office of the Medical Examiner

Deaths Related to Opioids and Other Drugs

Muskegon

All Drug-Related Deaths

Age	Race	Sex	Death Certificate: Substances Contributing to Death	Injury Zip Code
21	W	М	Pt. I: Fentanyl	49442
23	W	М	Pt. I: Heroin, temazepam, 7-amino clonazepam, amphetamine	49441
26	В	F	Pt. I: Hydrocodone, fentanyl	49444
27	W	М	Pt. I: Amphetamine, cocaine, fentanyl	49442
27	W	М	Pt. I: Fentanyl, morphine, lorazepam	49451
27	W	F	Pt. I: Methamphetamine, fentanyl, para-fluorofentanyl	49444
28	W	М	Pt. I: Cocaine, fentanyl	49444
28	W	F	Pt. I: Para-flourofentanyl, fentanyl, morphine, gabapentin	49442
29	W	М	Pt. I: Flualprazolam, ethanol, hydrocodone, diphenhydramine, fentanyl	49441
29	В	М	Pt. II: Amphetamine	49457
30	W	М	Pt. I: Cocaine, fentanyl	49441
33	W	М	Pt. I: Amphetamine, methamphetamine, fentanyl, xylazine	49442
33	В	F	Pt. I: Cocaine, fentanyl	Unknown
34	В	М	Pt. I: Acute and chronic ethanol use*	49444
35	В	М	Pt. I: Fentanyl, cocaine, dextromethorphan, diphenhydramine	49444
35	W	F	Pt. I: Diazepam, hydrocodone, oxycodone, gabapentin, fentanyl	49444
35	W	F	Pt. I: Fentanyl, heroin	49441
35	W	F	Pt. I: Fentanyl, methamphetamine	49442
37	W	М	Pt. I: Fentanyl, heroin	49442
37	W	М	Pt. I: Fentanyl	49437
37	W	М	Pt. I: Heroin, fentanyl, ethanol	49444
38	В	М	Pt. I: Fentanyl, morphine, gabapentin, diphenhydramine, flualprazolam	49442
38	W	М	Pt. I: Fentanyl	49444
38	W	F	Pt. I: Cocaine, heroin, methamphetamine, fentanyl, buprenorphine	49442
39	W	F	Pt. I: Amphetamine	49415
39	W	М	Pt. I: Cocaine, fentanyl	49441
40	W	М	Pt. I: Fentanyl, diphenhydramine	49442
40	W	М	Pt. I: Fentanyl, heroin, methamphetamine	49442
40	В	F	Pt. I: Amitriptyline, nortriptyline, cyclobenzaprine, clonidine	49442
41	В	М	Pt. I: Fentanyl, cocaine, ethanol, cocaethylene, tramadol	49441
41	W	М	Pt. I: Fentanyl, heroin, methamphetamine	49440

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All Drug-Related Deaths (cont.)

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43	W	<u>M</u>	Pt. I: Cocaine, tramadol, xylazine, fentanyl, acetyl-fentanyl	49457
44	W	H	Pt. I: Fentanyl, cocaine, gabapentin	49442
44	W	M	Pt. I: Methamphetamine, fentanyl	49444
45	W	М	Pt. I: Diphenhydramine, doxylamine, dextromethorphan, acetaminophen	49415
49	W	М	Pt. I: Methamphetamine	49441
51	В	M	Pt. I: Cocaine	49441
51	W	М	Pt. I: Fentanyl, heroin, methamphetamine	49442
52	W	F	Pt. I: Methadone, duloxetine, gabapentin, hydroxyzine	49441
53	В	М	Pt. I: Fentanyl, heroin, methadone, alprazolam, clonazepam, diphenhydramine	49442
54	W	М	Pt. I: Para-fluorofentanyl, tramadol, fentanyl	Unknown
55	W	F	Pt. I: Heroin, methamphetamine	Unknown
55	W	F	Pt. I: Fentanyl, cocaine, cocaethylene, ethanol	49442
56	W	М	Pt. I: Cocaine, methamphetamine, fentanyl	49461
57	W	М	Pt. I: Fentanyl, cocaine, ethanol, cocaethylene, gabapentin, diphenhydramine	49444
57	W	F	Pt. I: Fentanyl, heroin, cocaine, mitragynine, gabapentin, diphenhydramine, hydroxyzine, orphenadrine, dextromethorphan	49442
58	W	М	Pt. I: Fentanyl, xylazine, tramadol, lorazepam	49442
58	В	М	Pt. I: Cocaine, ethanol, cocaethylene, heroin, gabapentin, fentanyl	49442
59	W	М	Pt. I: Fentanyl	49444
59	W	F	Pt. I: Methamphetamine, cyclobenzaprine, gabapentin, paroxetine, dextro-levomethorphan	49441
59	W	F	Pt. I: Acetaminophen	49417
59	В	М	Pt. II: Heroin, buprenorphine, fentanyl, acetyl fentanyl*	49441
60	В	F	Pt. I: Alprazolam, methadone, hydrocodone, acetaminophen, xylazine, clonidine, fentanyl	49444
61	W	F	Pt. I: Fentanyl	49441
62	W	F	Pt. I: Fentanyl, heroin, ethanol, gabapentin, cyclobenzaprine, trazodone	49441
65	W	М	Pt. I: Cocaine, morphine, fentanyl	49442
66	W	М	Pt. I: Fentanyl, acetyl-fentanyl, heroin	49441
66	В	М	Pt. I: Morphine, fentanyl	49444
67	W	М	Pt. I: Cocaine	49444
69	W	М	Pt. I: Fentanyl	49442

^{*} Case is not included in the following report

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Total deaths due to drugs: 2018, 2019, 2020

2018 50 deaths

15 opioid only

12 non-opioid only

23 opioid & non-opioid

deaths per 10,000

2019

55 deaths

10 opioid only

10 non-opioid only

35 opioid & non-opioid

deaths per 10,000

2020

57 deaths

11 opioid only

7 non-opioid only

39 opioid & non-opioid

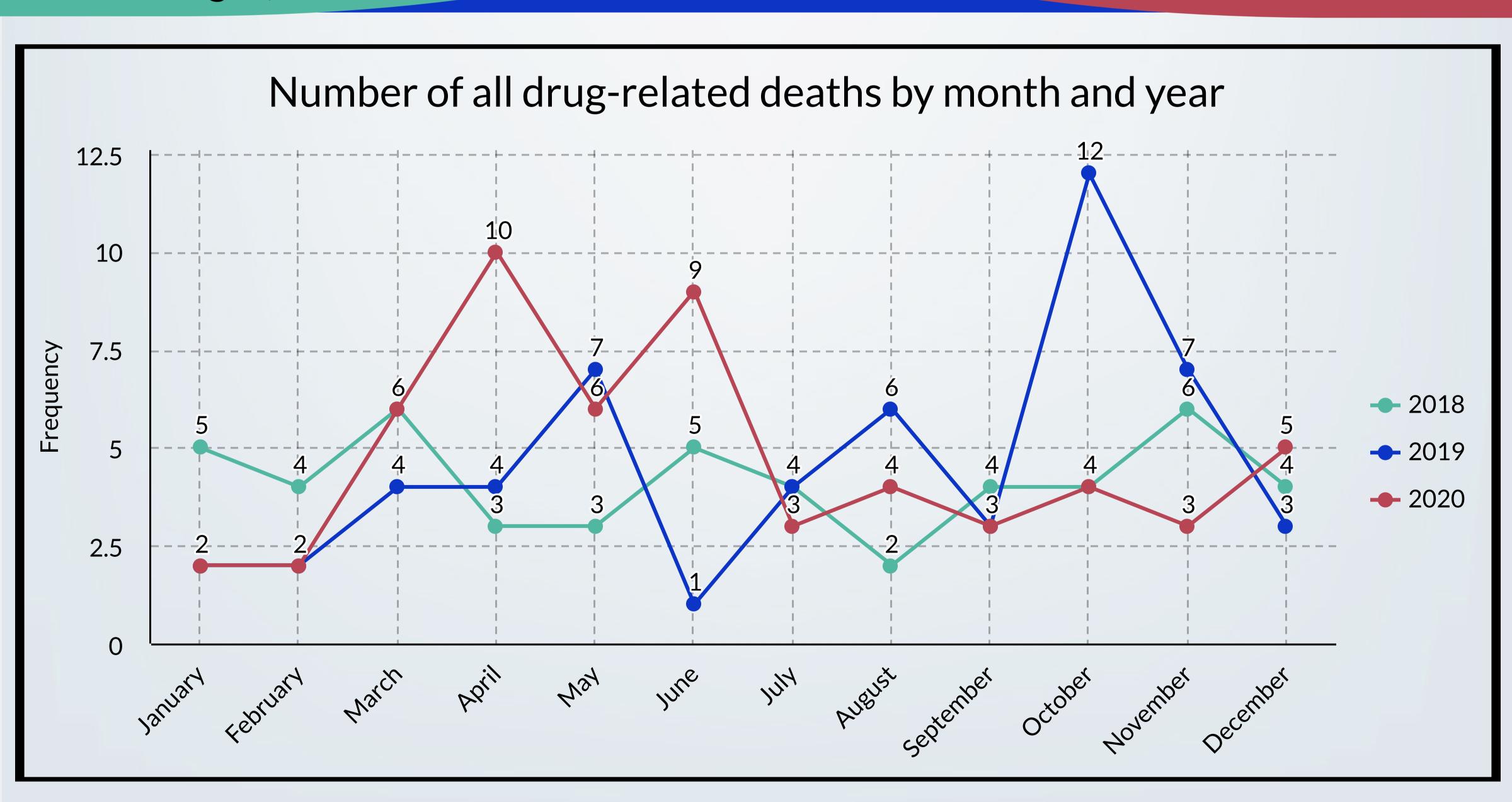
deaths per 10,000

Number of nonfatal overdoses among ED discharges, 2020

1027

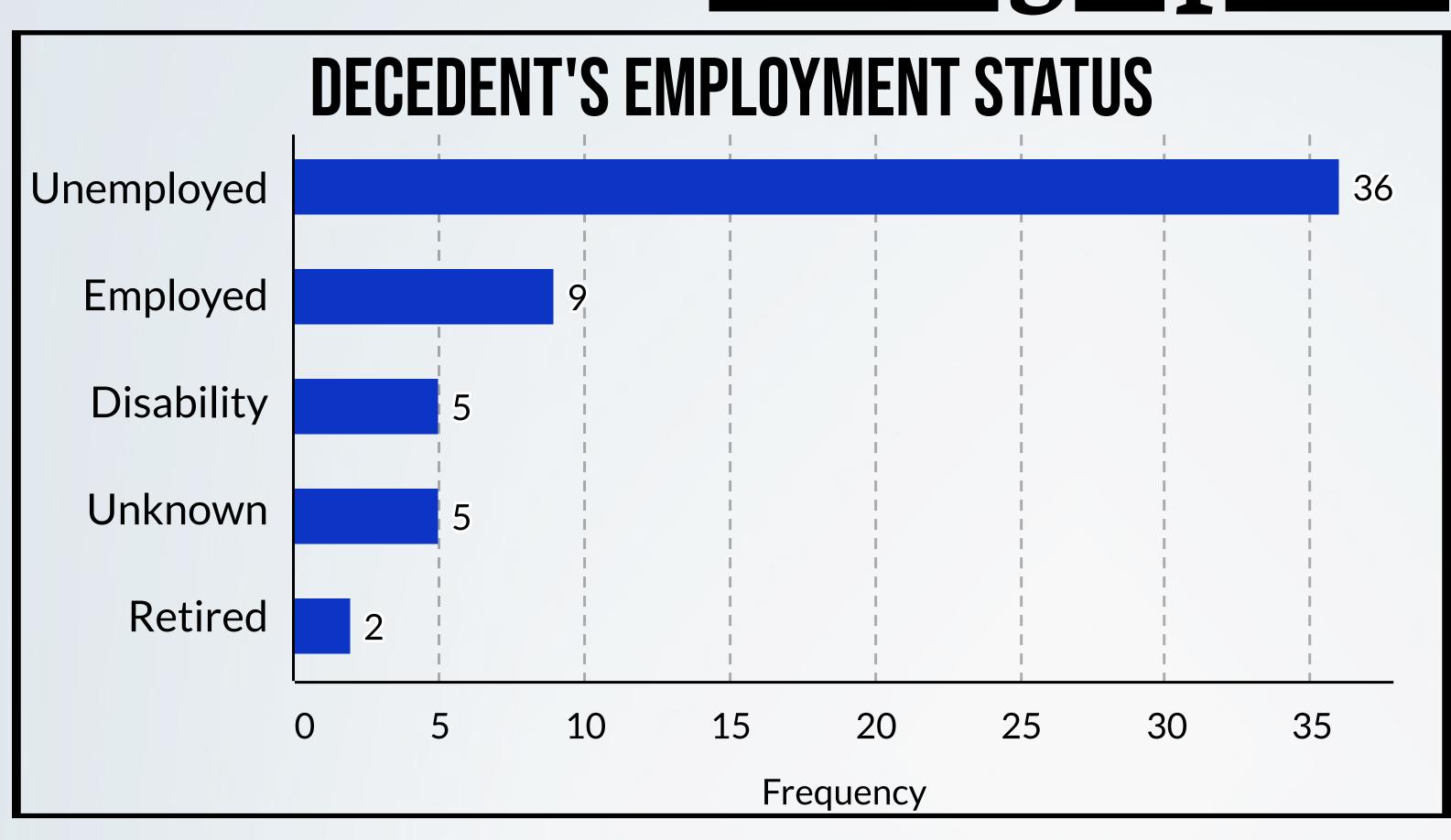
59.6

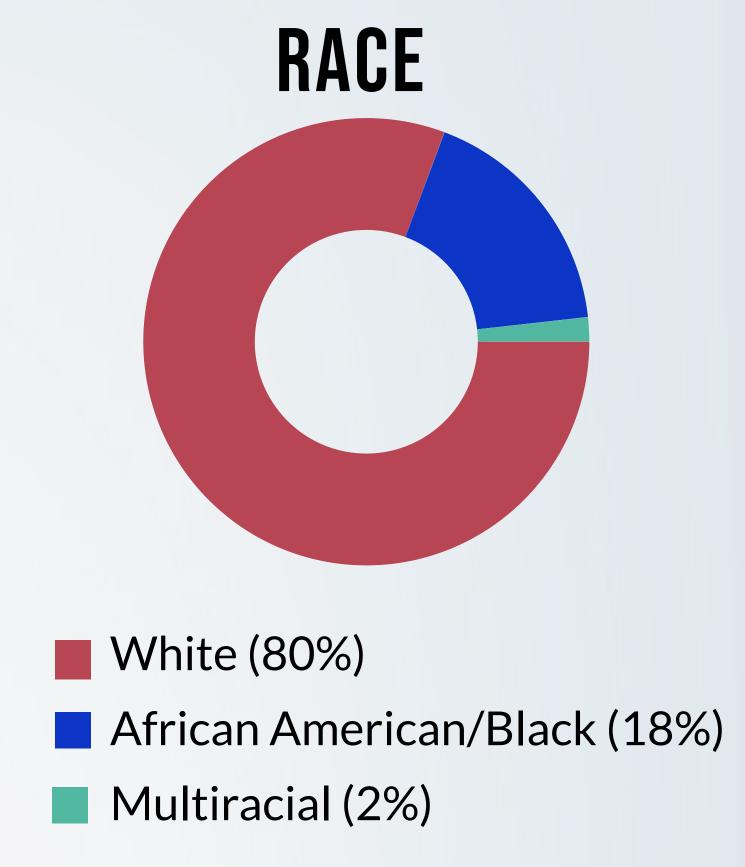
Nonfatal overdoses per 10,000

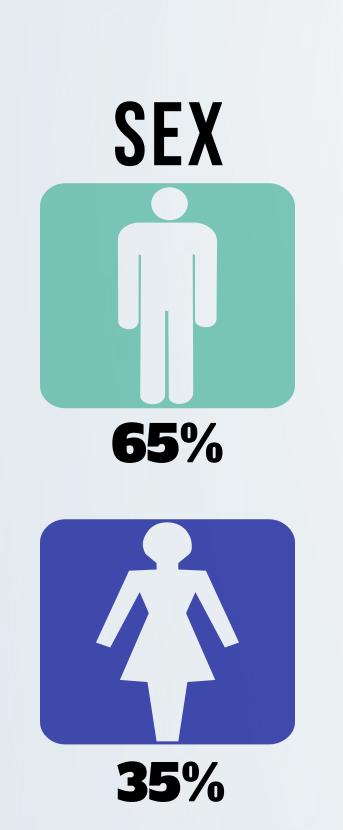


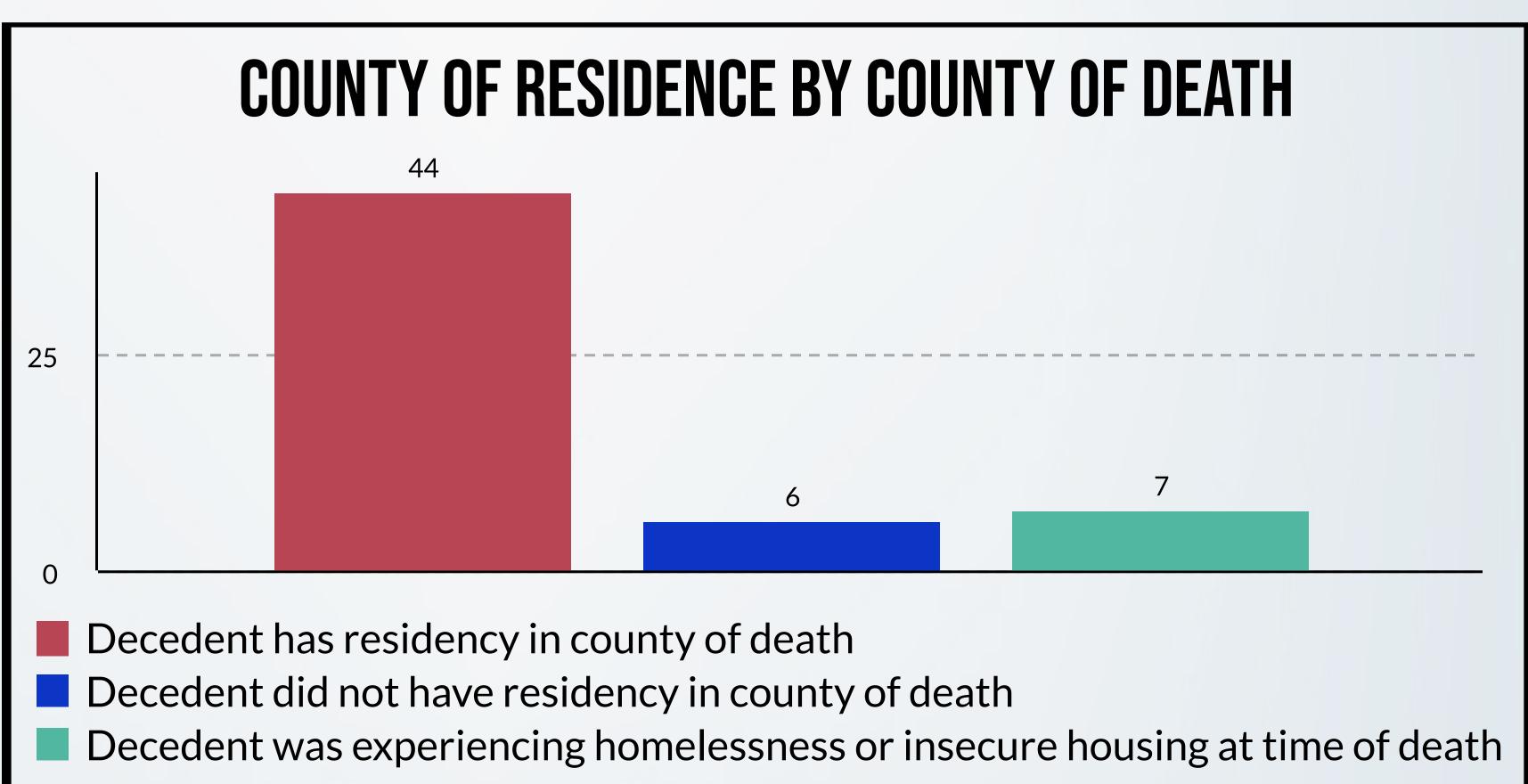
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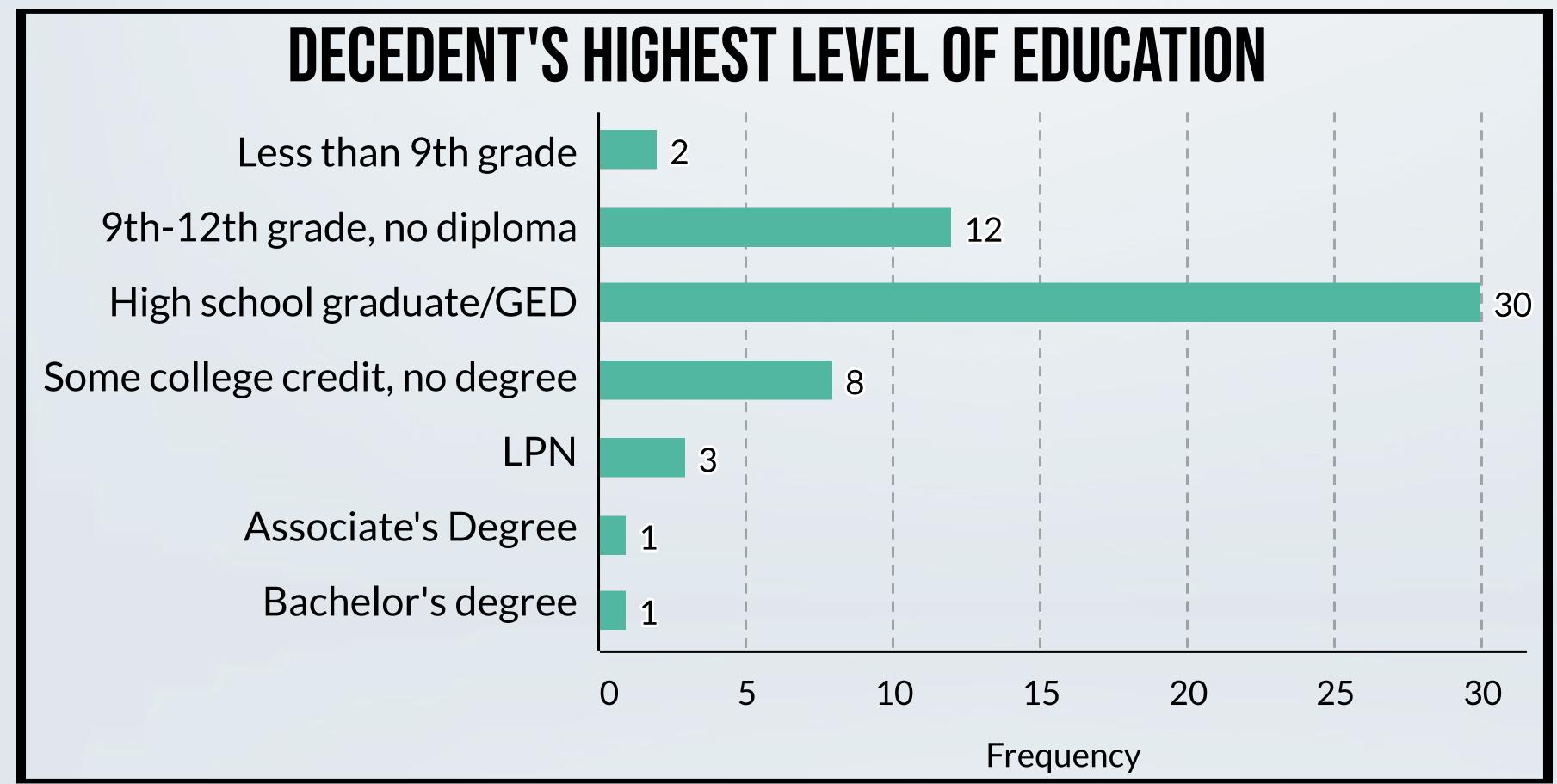
Demographics







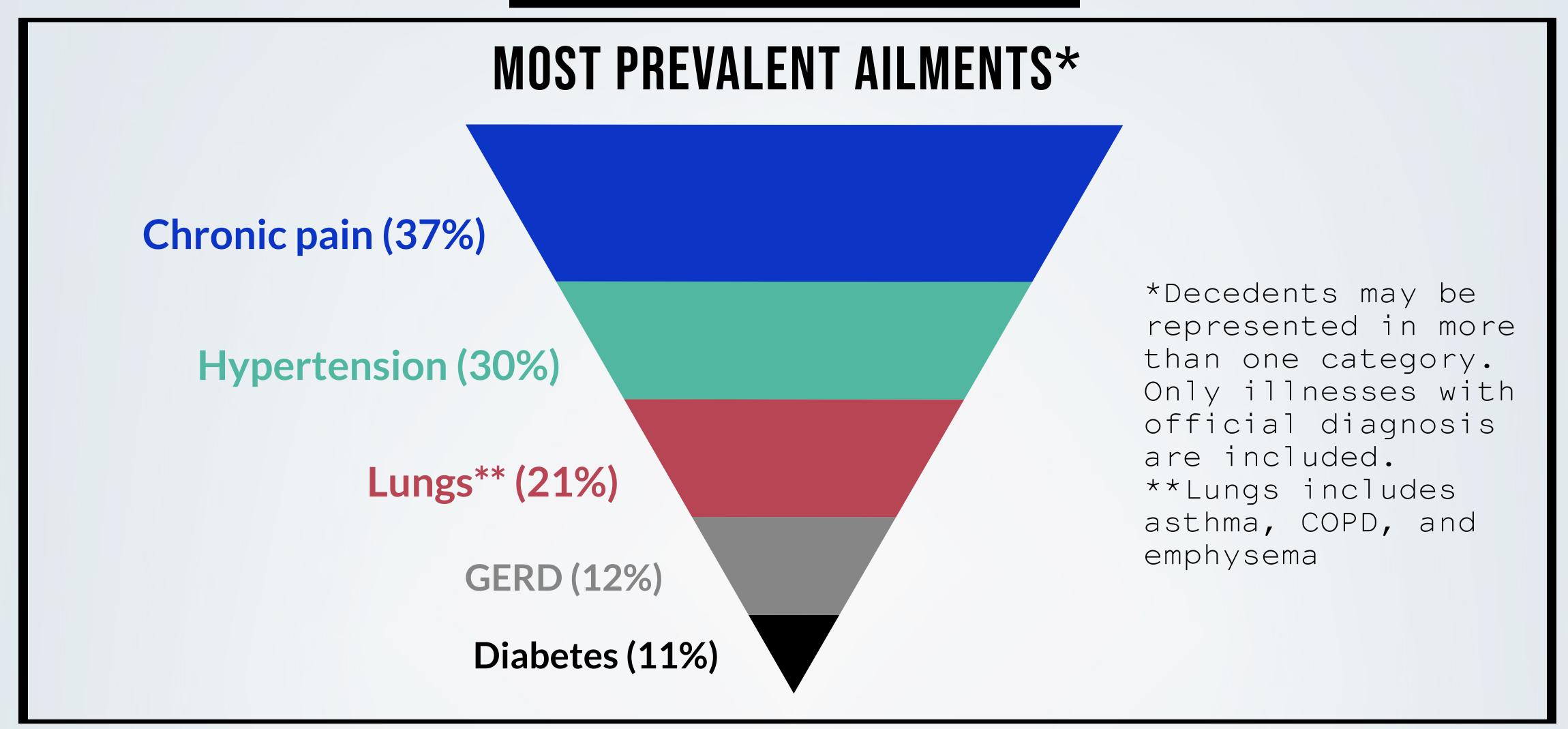


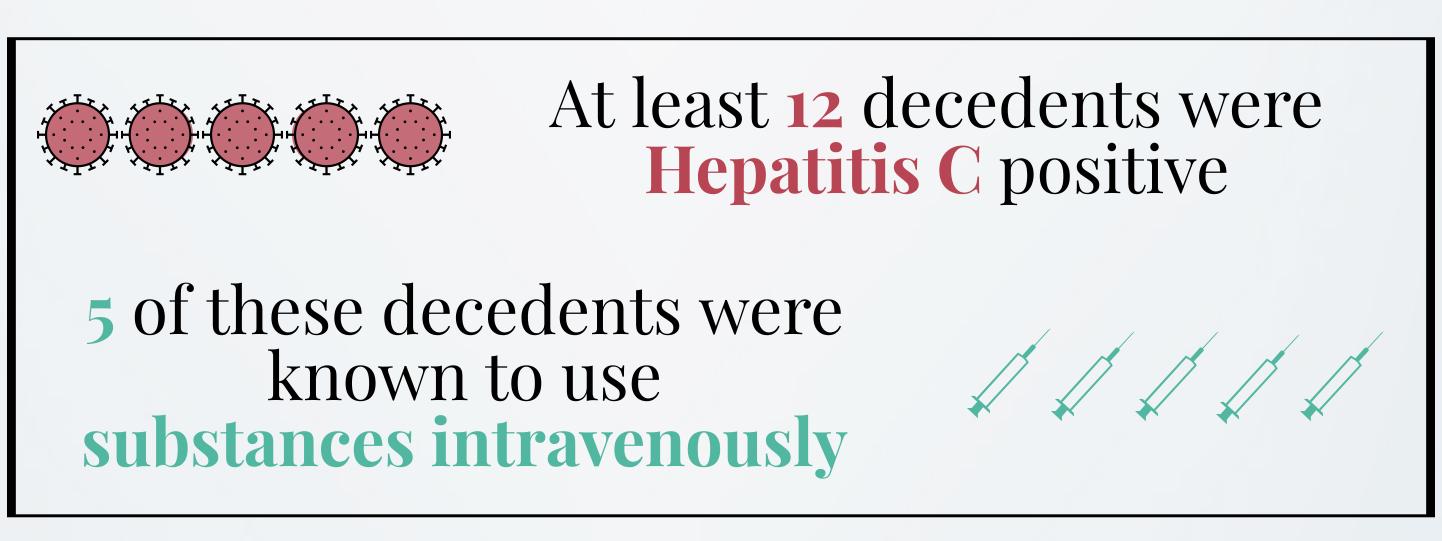


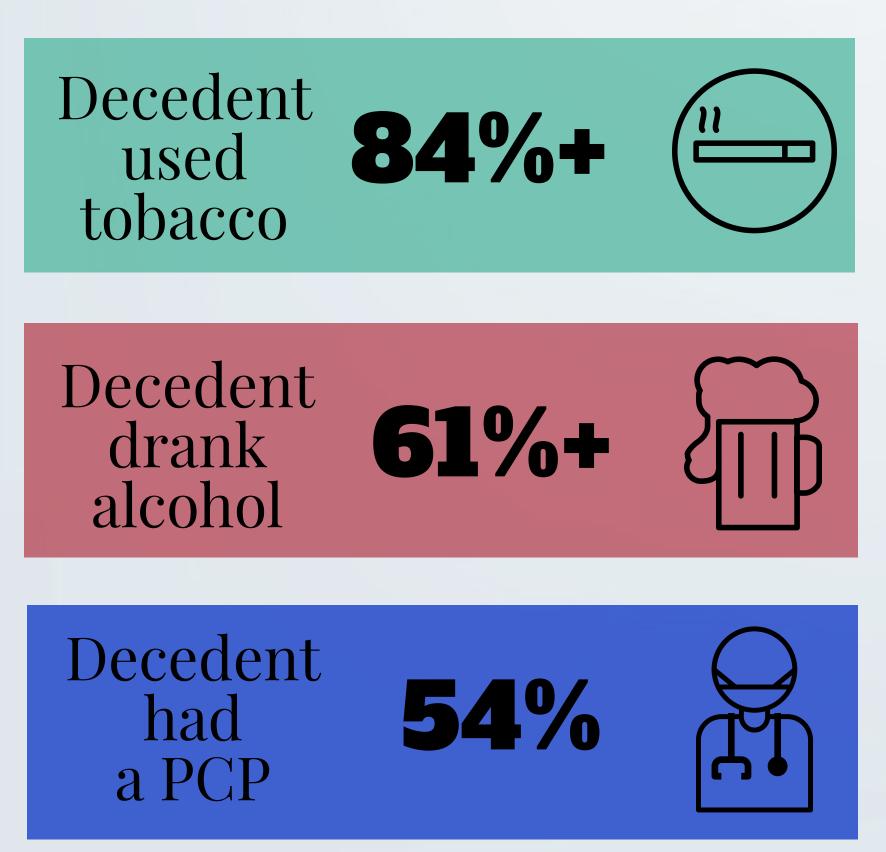


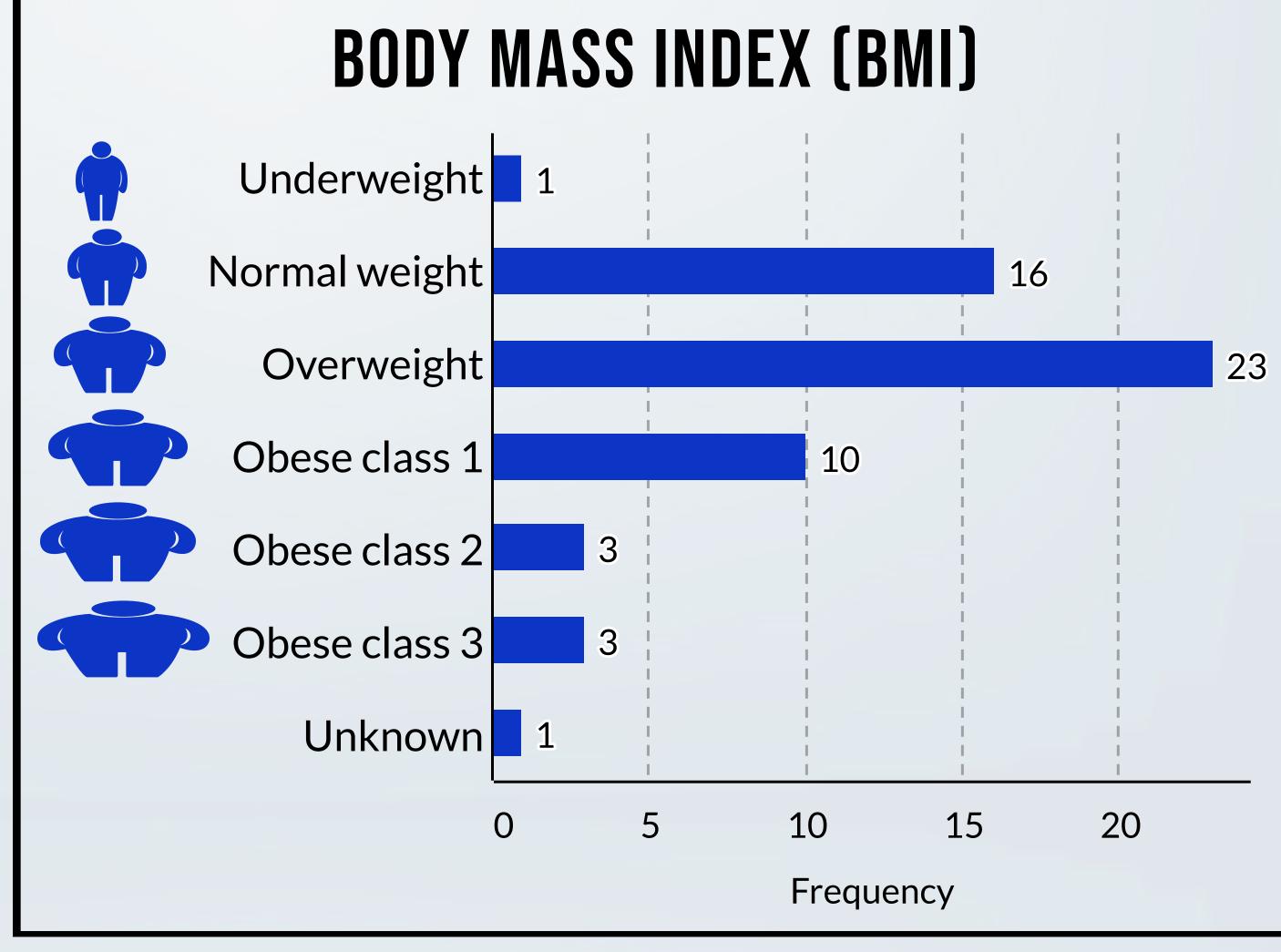
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Health Factors





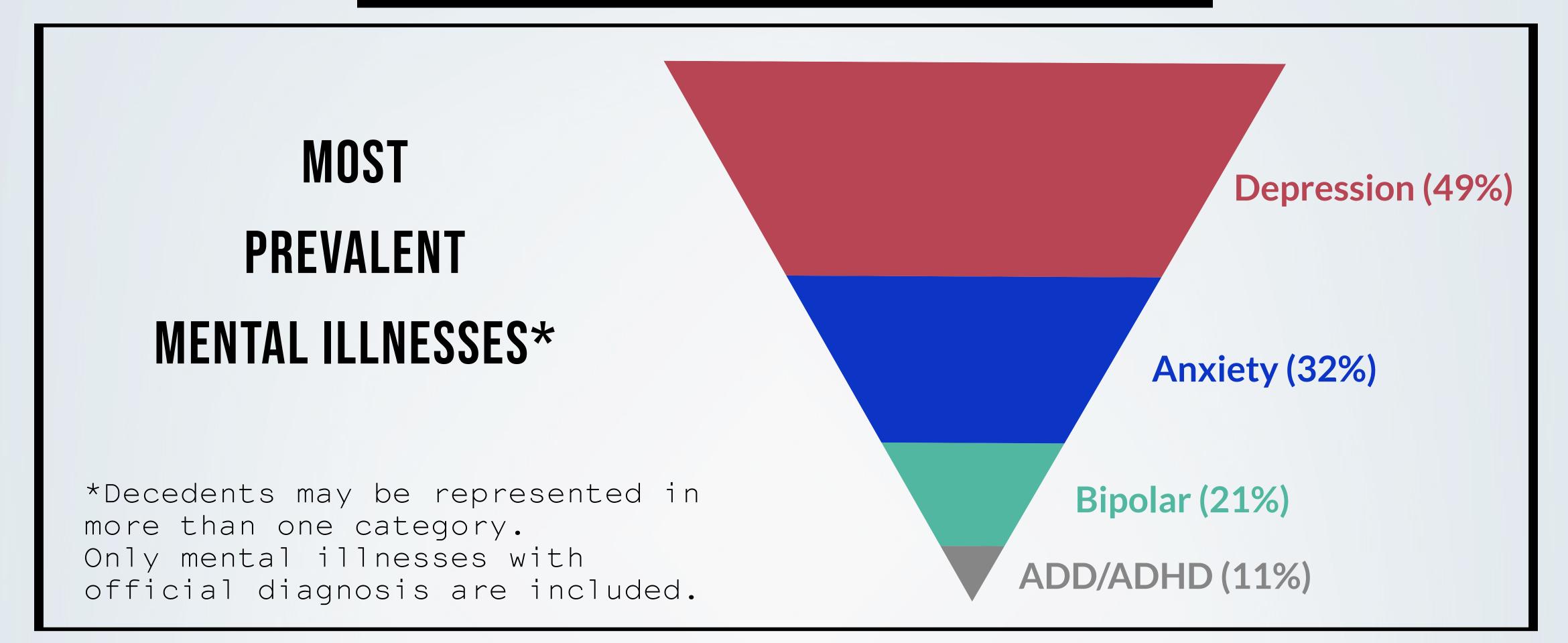




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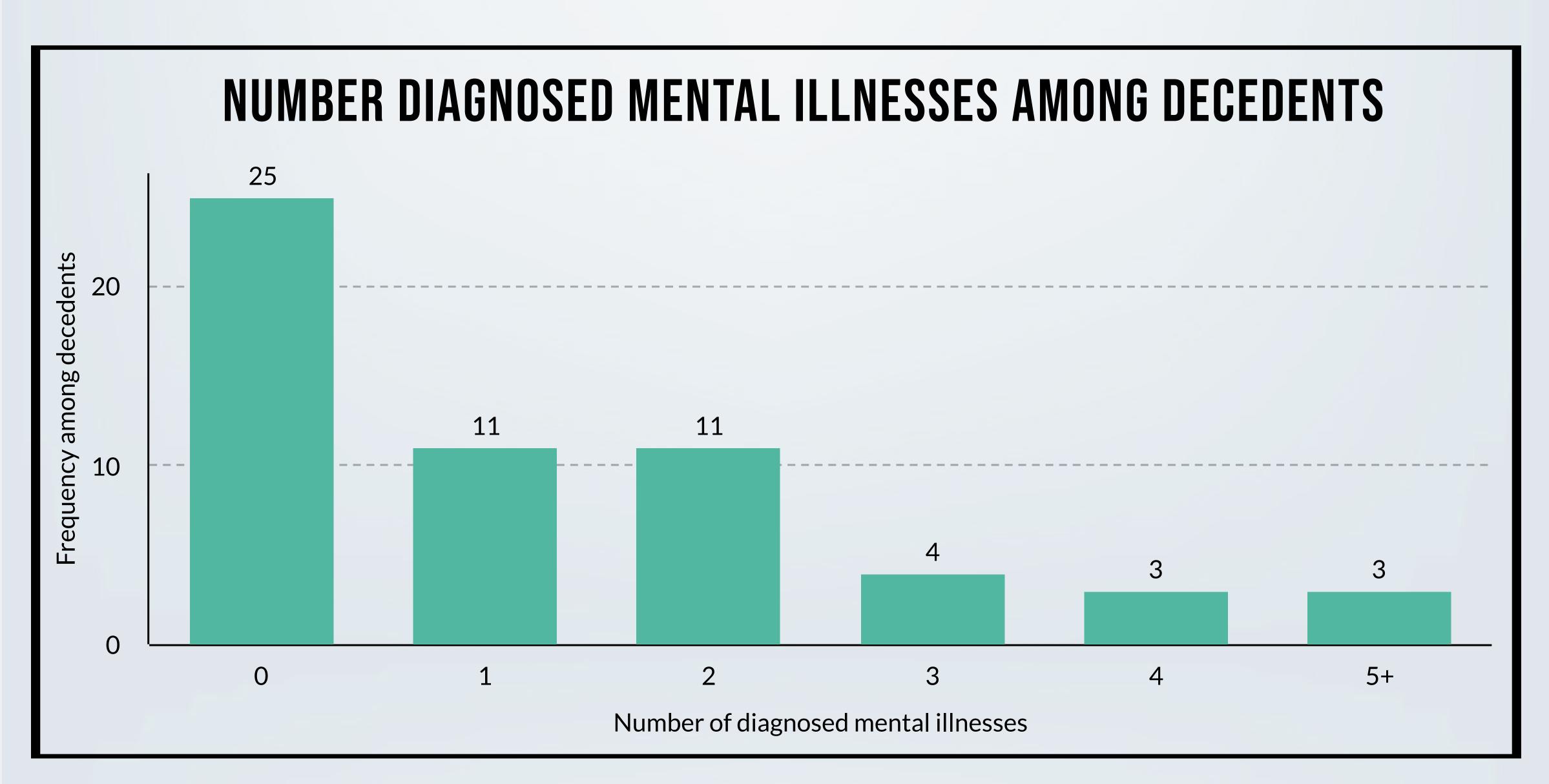
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Mental Health Factors



PERCENTAGE OF DECEDENTS...





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Social Factors



Decedent was experiencing homelessness or insecure housing at time of death



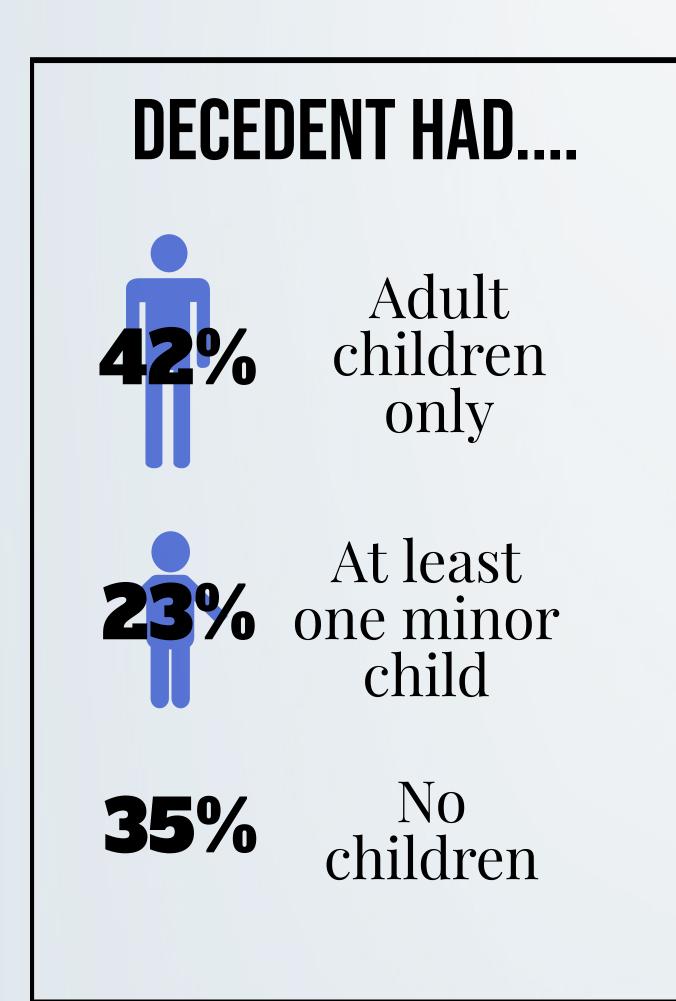


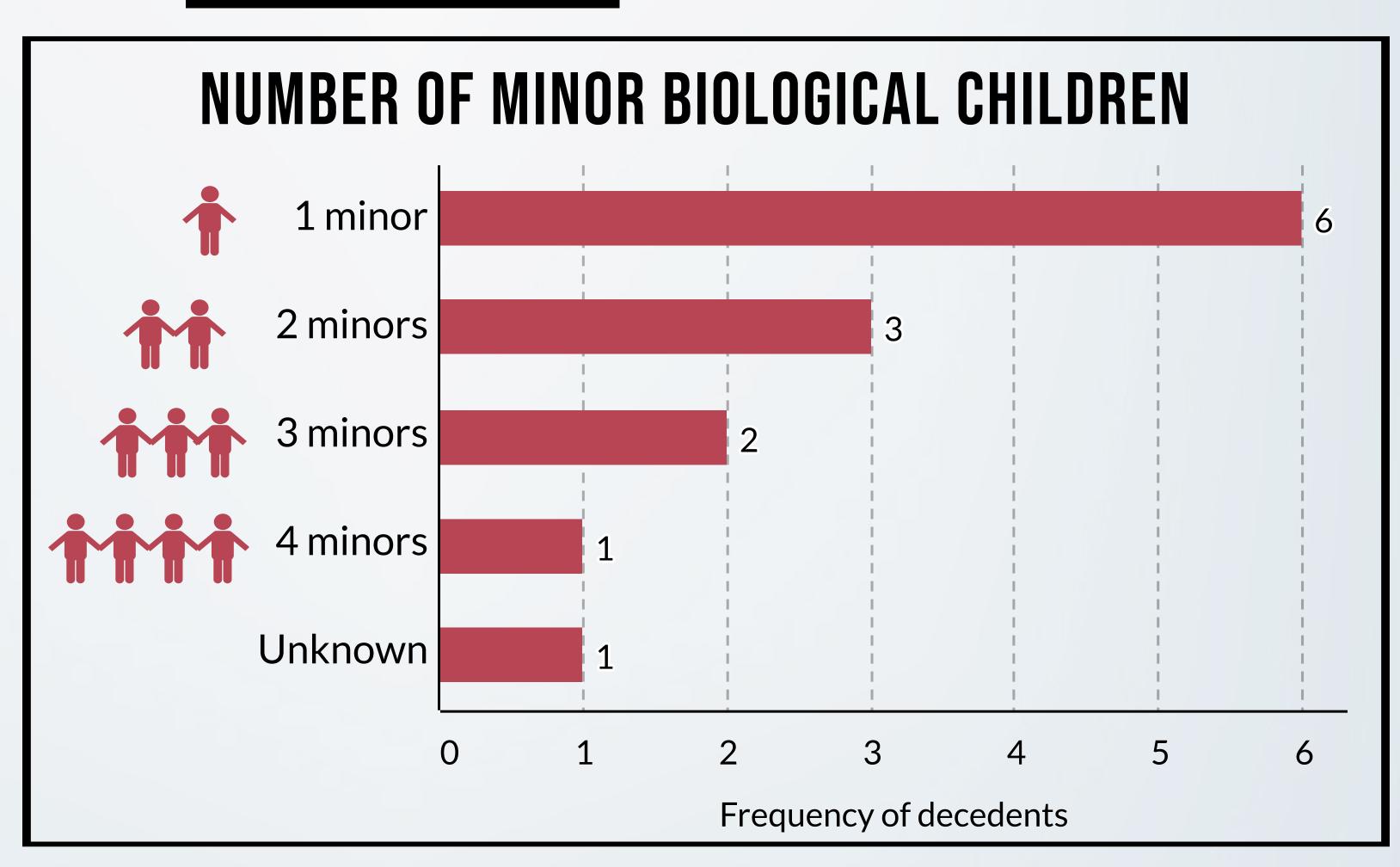
58%

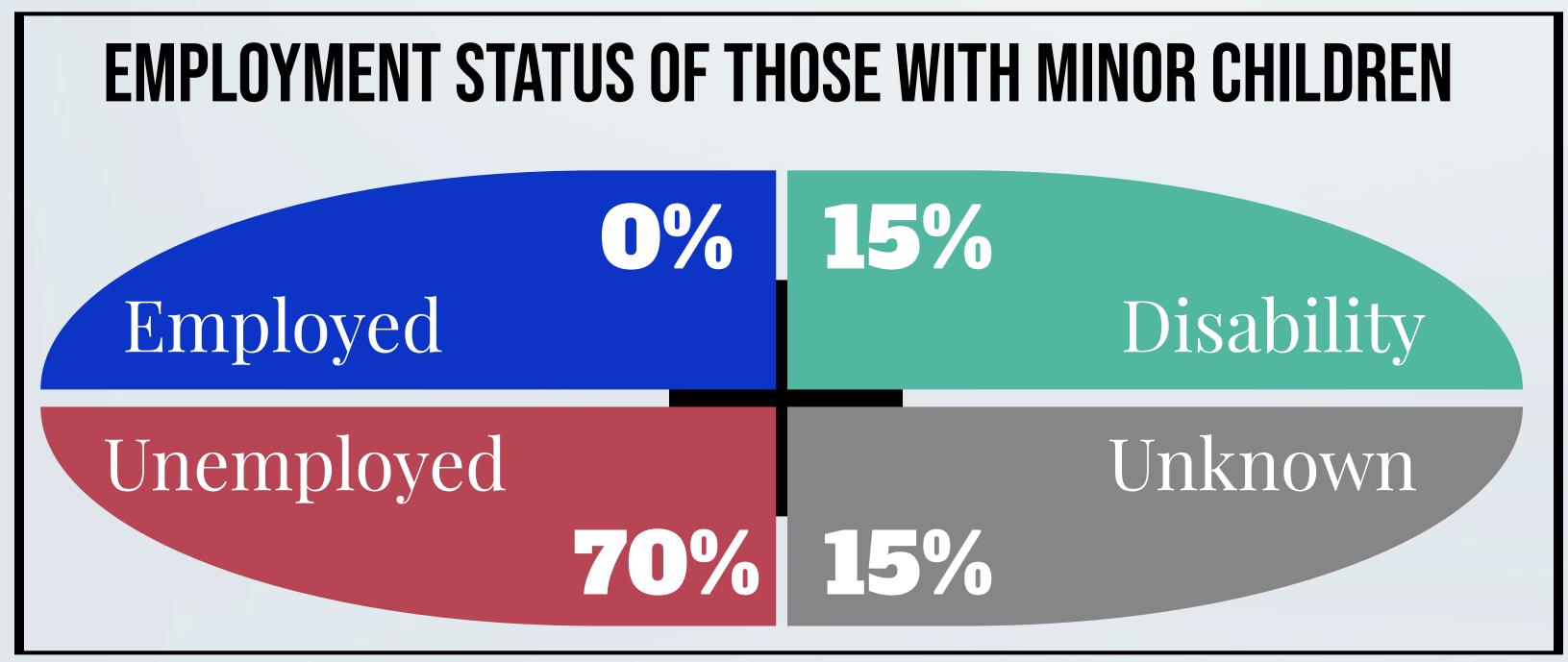


Decedents **ever incarcerated** were released
in past 60 days

Children



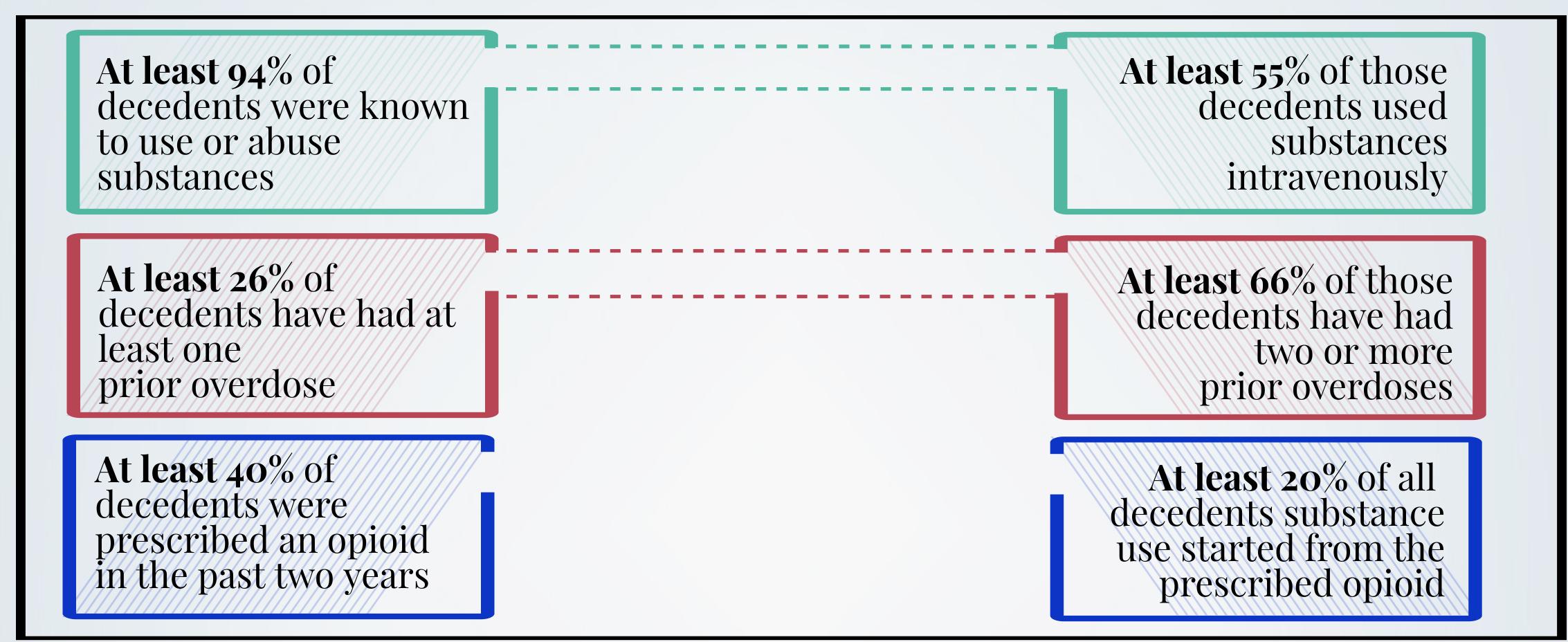


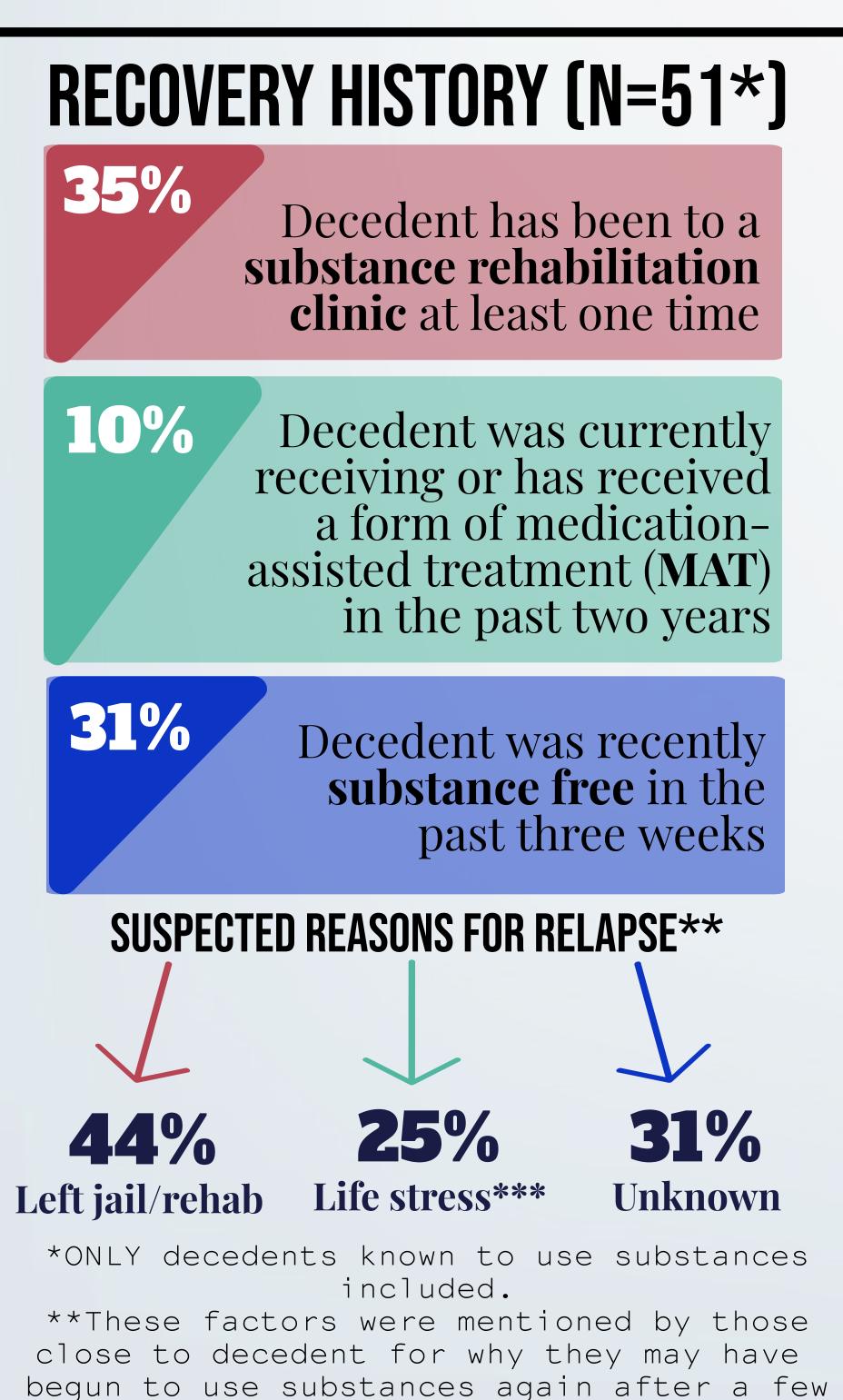


3 decedents lived with their minor child(ren) at time of death

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Substance Use History



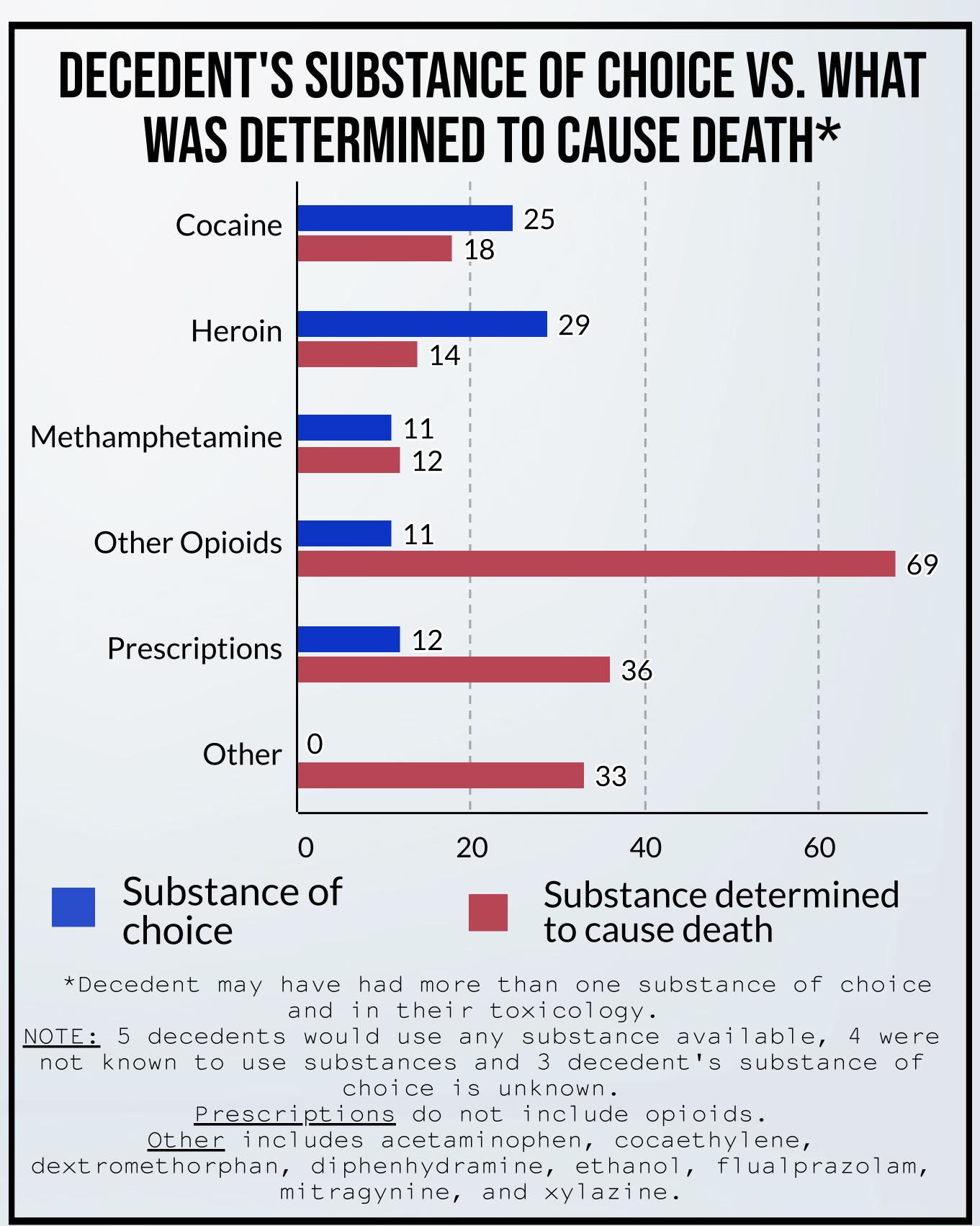


months to years of living substance free.

***Life stress includes job loss, lack of

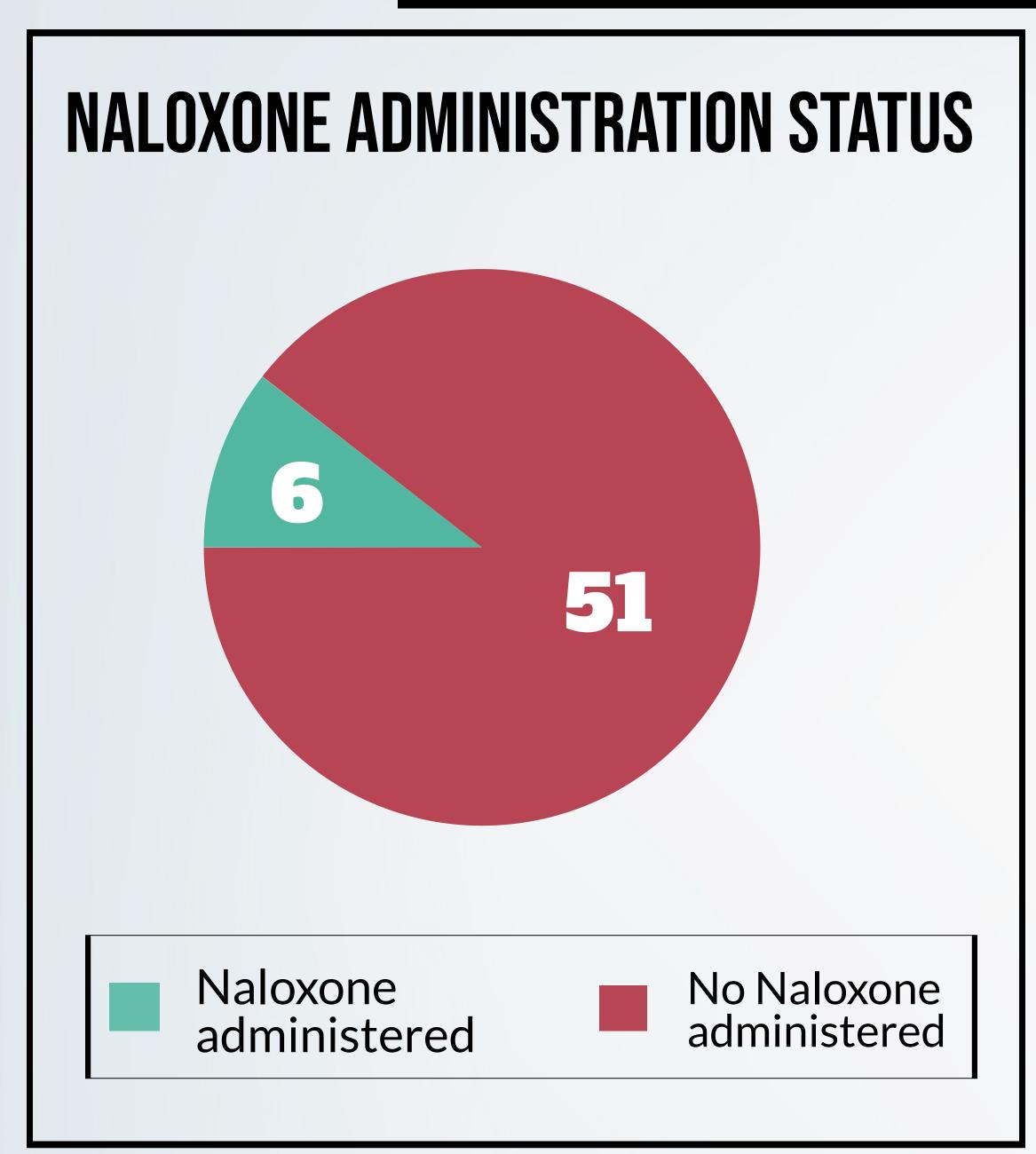
rehabilitation access, and social circle

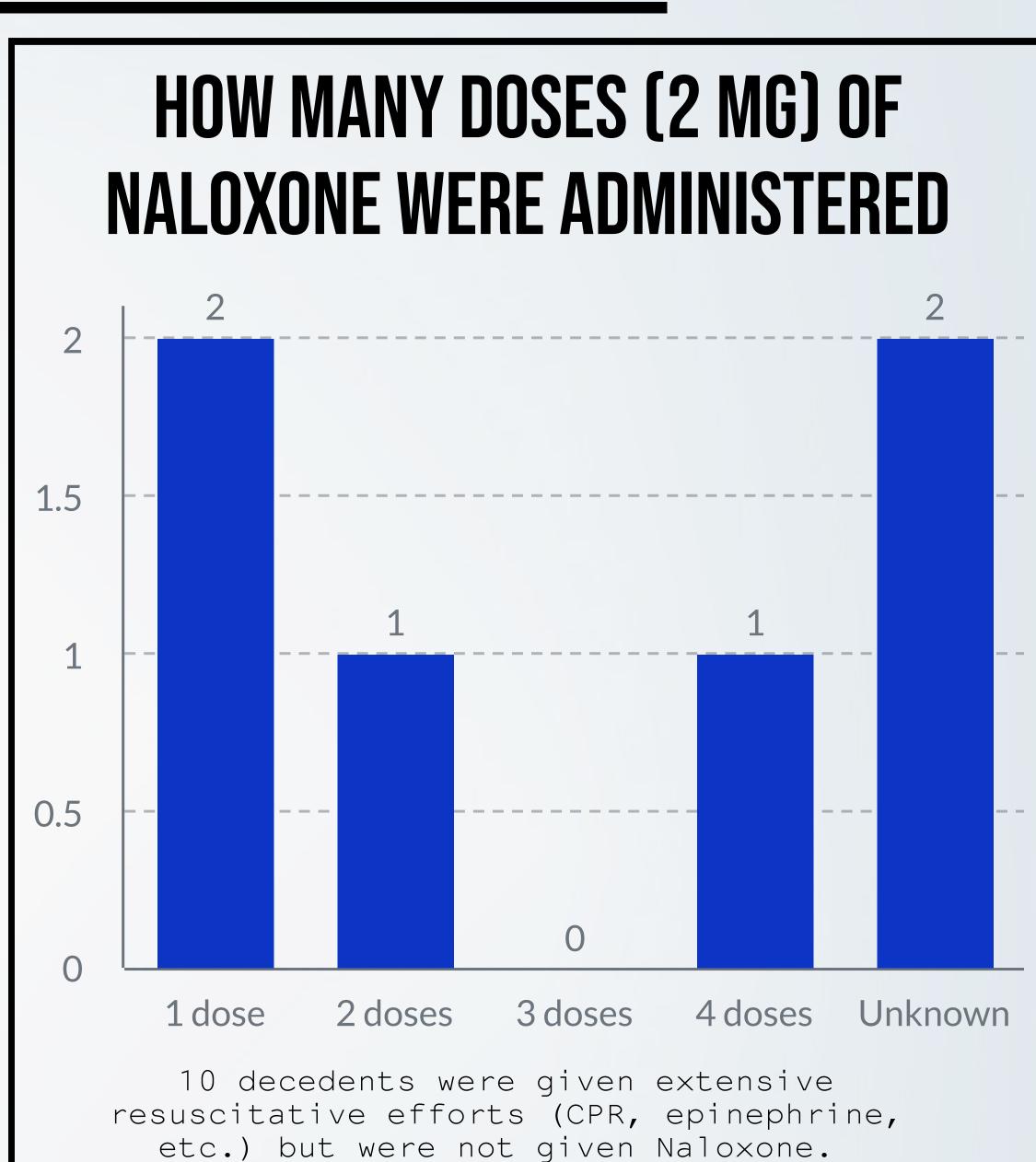
influence.

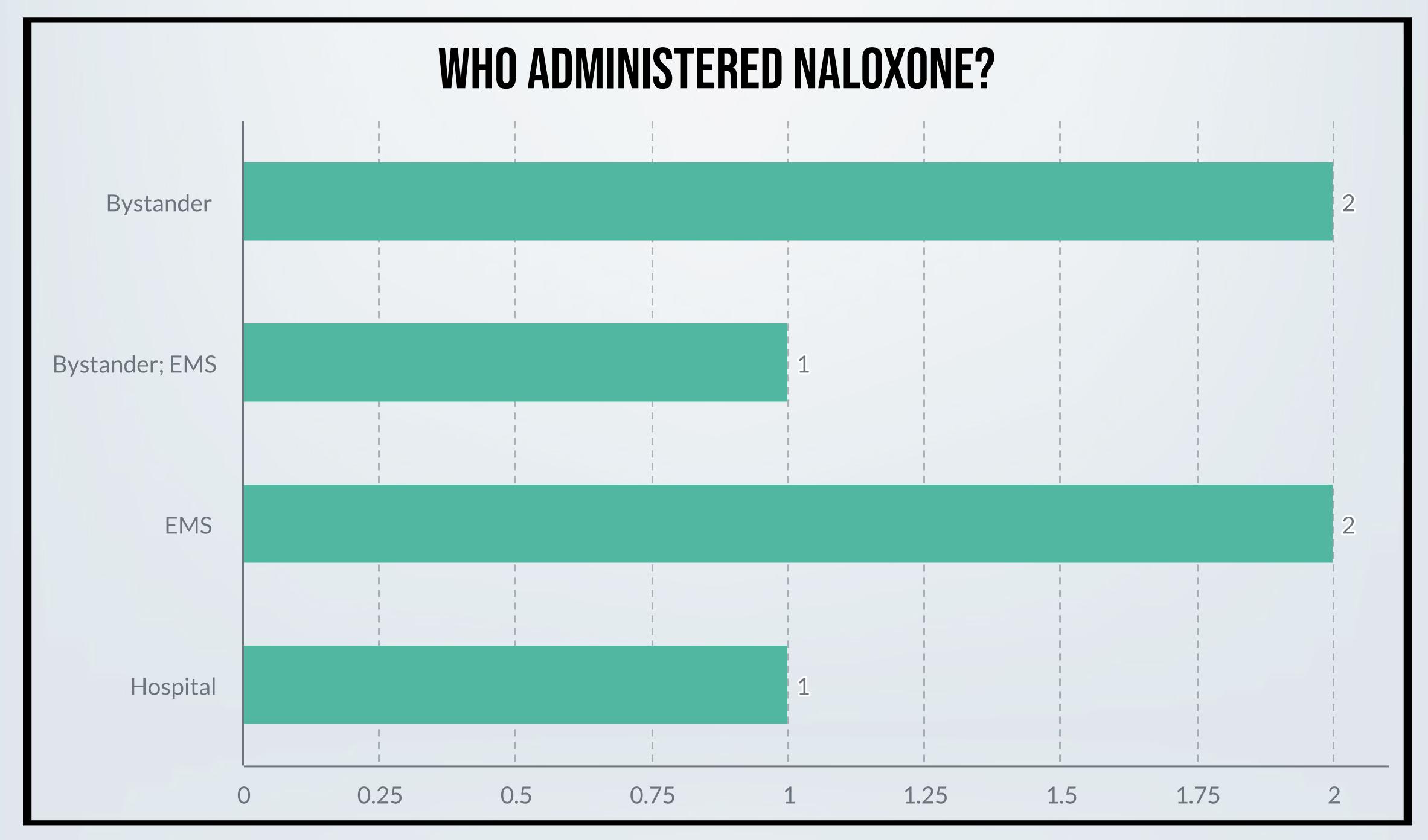


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Naloxone Administration







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Death Scene Findings



39%
Were found
by family



60%
Died at their residence



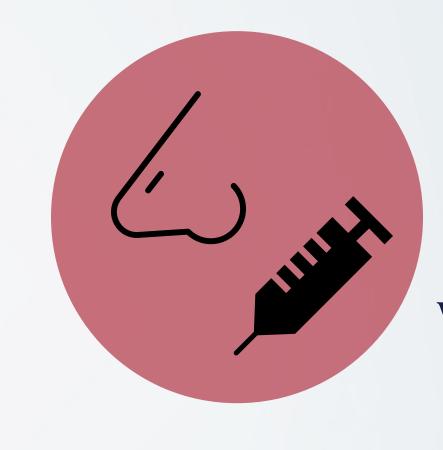
4%
Were found
by a minor



19%
Used the fatal substance(s)
alone



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



7%
Had Narcan on scene and/or were prescribed Narcan



50%
Were dead
upon EMS
arrival

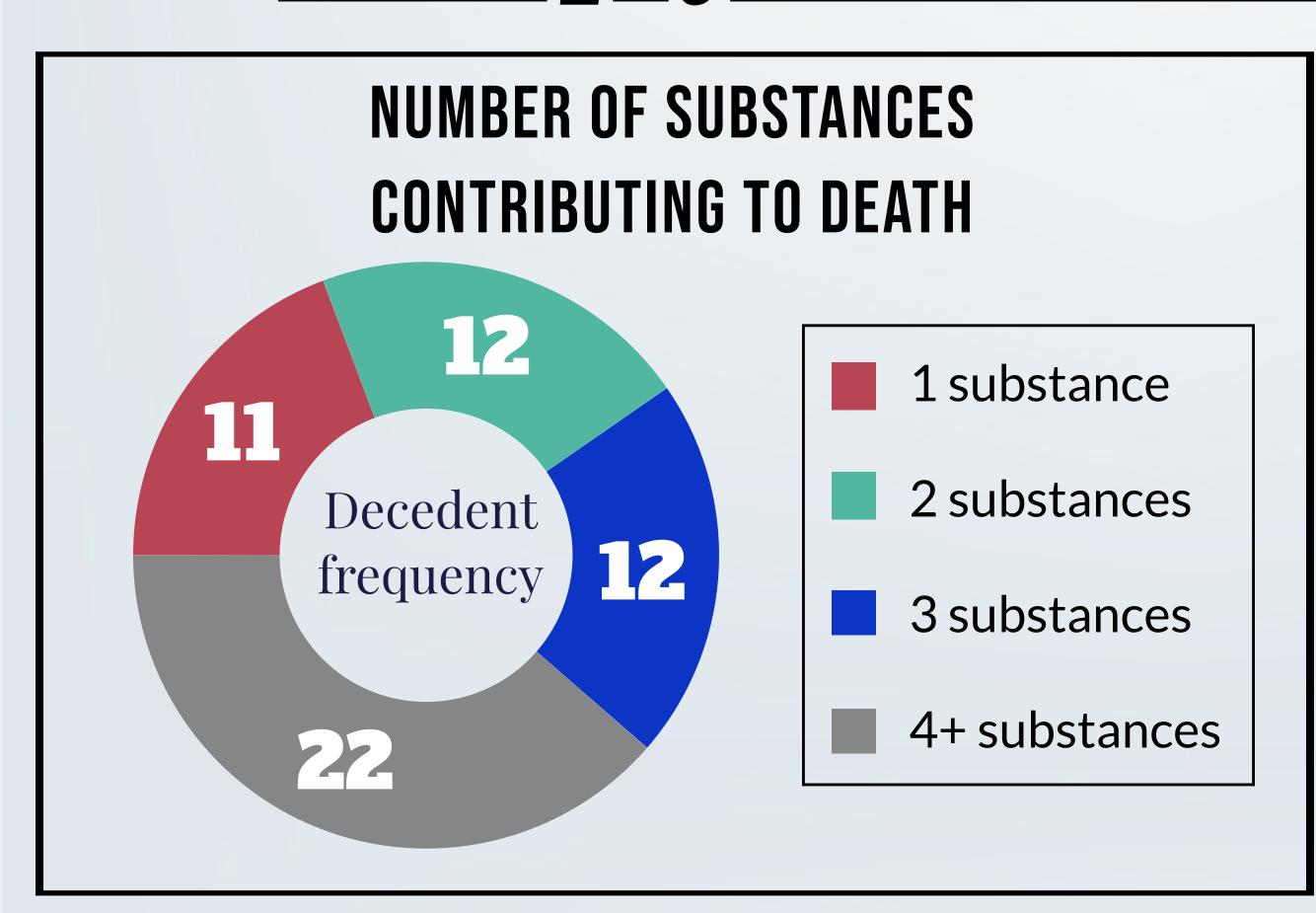


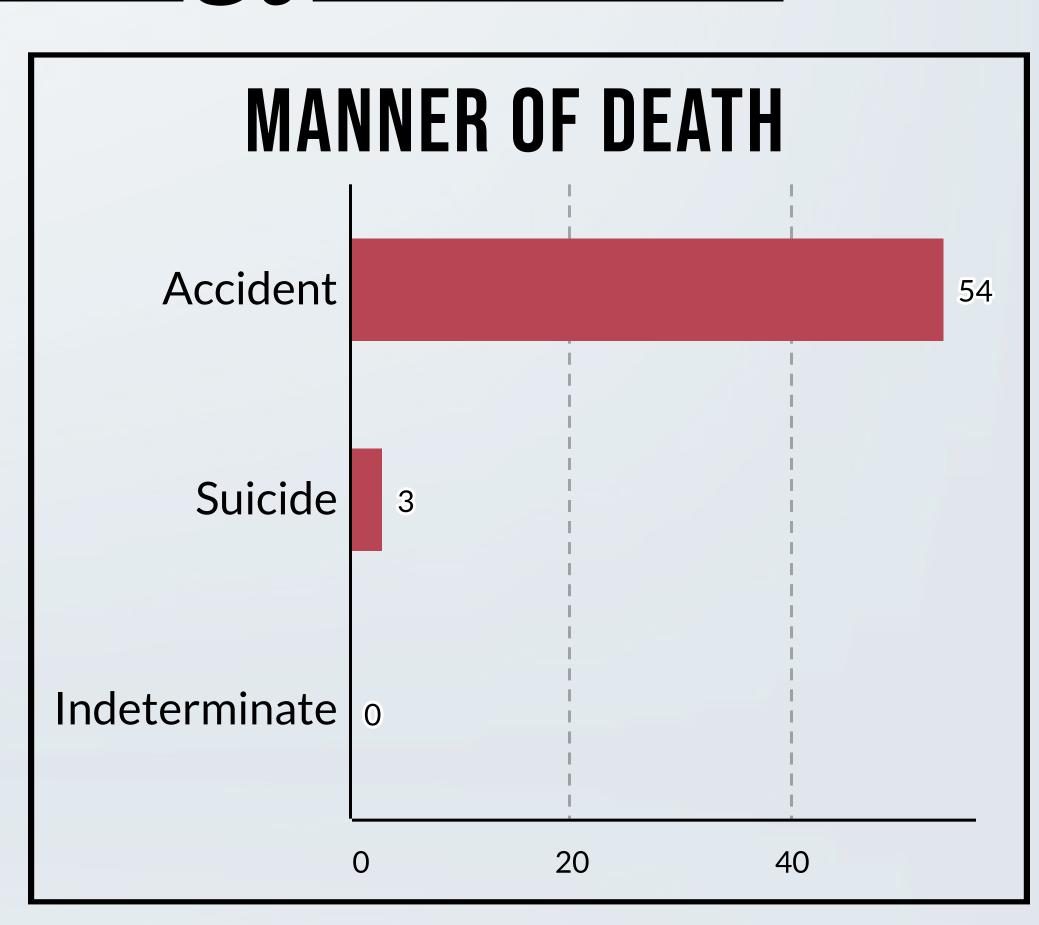
19%
Died at the hospital



11% Were given Narcan

Autopsy and Toxicology Results



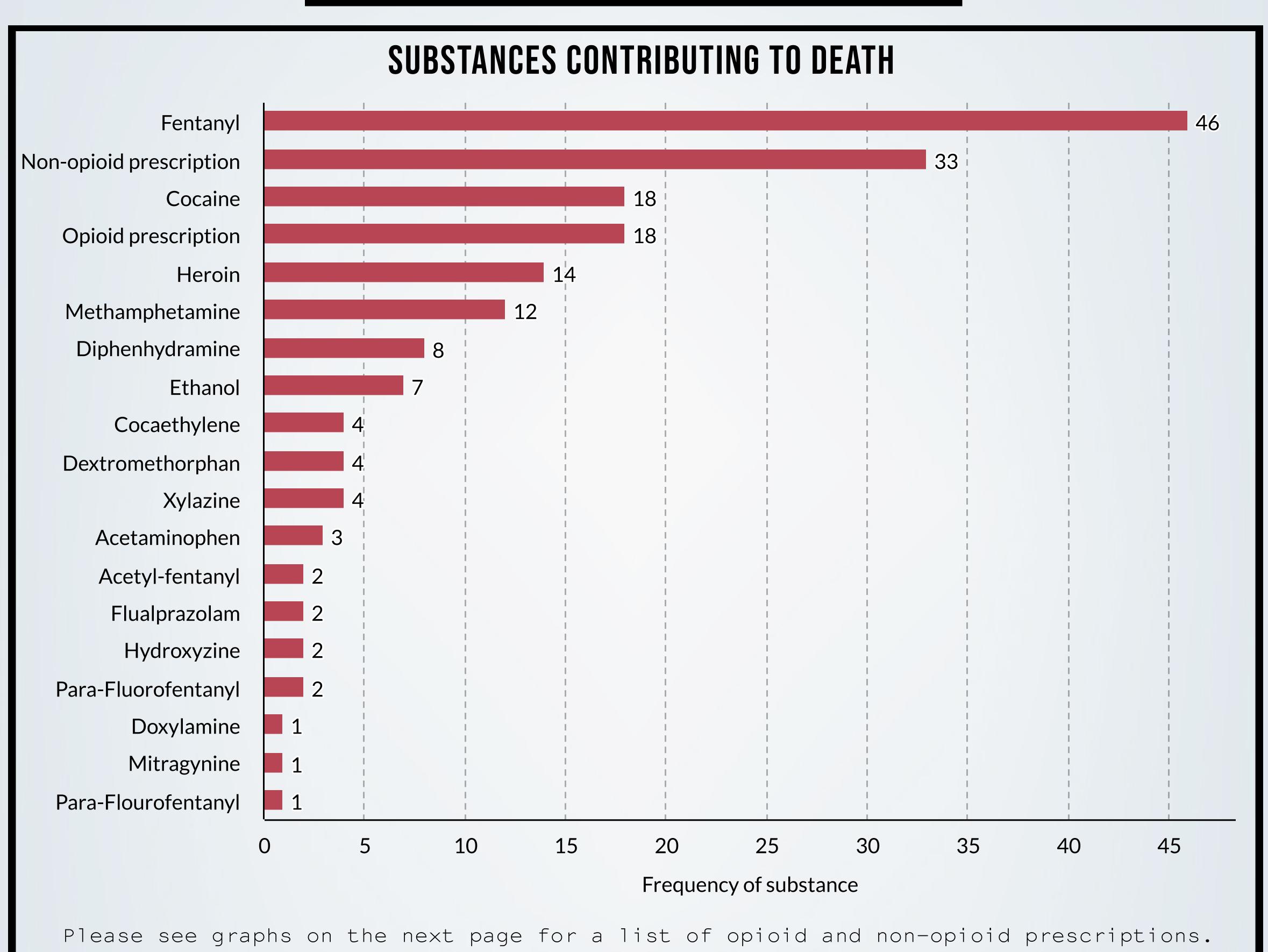


Office of the Medical Examiner

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Substance Breakdown



HEROIN & FENTANYL

14 decedents had heroin in their toxicology

12 of these decedents also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

2 decedents had a benzodiazepine and an opioid in their toxicology

o decedents were prescribed that opioid and benzodiazepine

XYLAZINE & FENTANYL

4 decedents had xylazine in their toxicology

4 of these decedents also had fentanyl in their toxicology

METHAMPHETAMINE & OPIOIDS

10 decedents had methamphetamine and opioid(s) in their toxicology

5 decedents had methamphetamine and heroin in their toxicology

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Autopsy and Toxicology Results, cont.

