2020 ANNURL REPORT

Deaths related to opioids and other drugs

Kalamazoo

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.
- 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

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<u>All Drug-Related Deaths</u>

Age	Race	Sex	Death Certificate: Substances Contributing to Death	Injury Zip Code
26	W	M	Pt. I: Buprenorphine	49007
18	Ο	Μ	Pt. I: Fentanyl, tramadol, etizolam	49009
20	W		Pt. I: Fentanyl, methamphetamine	49007
20	W	Μ	Pt. I: Oxycodone, cocaine, flualprazolam, amphetamine, MDMA, norketamine	49001
21	В	Μ	Pt. I: Hydrocodone, fentanyl, oxycodone	49048
21	W	F	Pt. I: Ethanol*	49008
24	W	Μ	Pt. I: Fentanyl, hydrocodone, mitragynine, quetiapine, xylazine	49006
24	W	Μ	Pt. I: Ethanol*	49071
28	W	F	Pt. I: Fentanyl, methamphetamine	49017
28	В	Μ	Pt. I: Methamphetamine, fentanyl	49008
28	W	Μ	Pt. I: Fentanyl	49009
28	В	Μ	Pt. I: Heroin, fentanyl, acetyl-fentanyl, methamphetamine	49007
30	W	Μ	Pt. I: Fentanyl, methamphetamine, ethanol, alprazolam	49048
31	W	Μ	Pt. I: Heroin, acetyl-fentanyl, fentanyl, methamphetamine	49009
31	W	Μ	Pt. I: Fentanyl, methamphetamine, diphenhydramine	49097
32	W	Μ	Pt. I: Cocaine, methamphetamine, fentanyl	49007
32	W	Μ	Pt. I: Ethanol, methamphetamine, fentanyl	49007
32	W	F	Pt. I: Methamphetamine	49045
32	W	Μ	Pt. I: Fentanyl, heroin, methamphetamine	49024
32	W	F	Pt. I: Fentanyl	49007
32	W	Μ	Pt. I: Methamphetamine, fentanyl	49009
32	W	Μ	Pt. I: Tramadol	49001
33	W	Μ	Pt. I: Fentanyl, acetyl-fentanyl, methamphetamine	49009
33	W	Μ	Pt. I: Fentanyl, methadone, ethanol, alprazolam, lorazepam	49037
33	W	Μ	Pt. I: Fentanyl, acetyl-fentanyl, methamphetamine	49004
33	W	Μ	Pt. I: Fentanyl, alprazolam, ethanol	49048
34	W	Μ	Pt. I: Fentanyl, methamphetamine, methadone	49004
35	W	Μ	Pt. I: Methamphetamine, fentanyl	49082
36	W	Μ	Pt. I: Buprenorphine, amphetamine, fentanyl	49001
36	W	Μ	Pt. I: Fentanyl, acetyl-fentanyl, tramadol gabapentin	49007
37	W	F	Pt. I: Methamphetamine, fentanyl	49001
37	W	Μ	Pt. I: Amphetamine, methamphetamine, acetyl-fentanyl, fentanyl	49048
37	W	Μ	Pt. I: Methamphetamine, heroin, fentanyl	49009
37	W	Μ	Pt. I: Acute and Chronic Alcohol Use*	49024
38	W	Μ	Pt. I: Heroin, fentanyl	49009
38	W	Μ	Pt. I: Fentanyl, methamphetamine, hydrocodone, clonazepam	Unknown

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<u>All Drug-Related Deaths (cont.)</u>

39	W	Μ	Pt. I: Fentanyl, ethanol	49037
39	W	Μ	Pt. I: Fentanyl, norfentanyl	49004
40	W	Μ	Pt. I: Thyroid hormone	Unknown
41	W	Μ	Pt. I: Methamphetamine	49004
42	W	F	Pt. I: Opiates, methadone, buprenorphine, benzodiazepine, amphetamine	49012
42	В	Μ	Pt. I: Cocaine, cocaethylene, fentanyl	49048
42	W	М	Pt. I: Methamphetamine	49048
42	W	Μ	Pt. I: Fentanyl	49087
43	W	Μ	Pt. I: Fentanyl, methamphetamine	49001
43	W	Μ	Pt. I: Methamphetamine, fentanyl, heroin	49048
43	W	F	Pt. I: Buprenorphine, fentanyl, acetyl fentanyl	49048
44	W	F	Pt. I: Heroin, xylazine, fentanyl, acetyl-fentanyl	49008
44	W	Μ	Pt. I: Fentanyl, acetyl-fentanyl, xylazine, methamphetamine	49007
47	W	Μ	Pt. I: MDMA	49036
48	В	F	Pt. I: Fentanyl	49006
49	W	Μ	Pt. I: Methamphetamine, methadone	49001
49	В	Μ	Pt. I: Fentanyl, tramadol	49024
50	В	Μ	Pt. I: Fentanyl, acetyl-fentanyl, morphine, ethanol	49007
52	W	Μ	Pt. I: Methamphetamine, fentanyl	49002
53	В	Μ	Pt. I: Methamphetamine	49001
55	W	Μ	Pt. I: Methamphetamine, fentanyl	Unknown
55	W	F	Pt. I: Metoprolol	49008
57	W	Μ	Pt. I: Clozapine, valproic acid, lurasidone, diazepam	49002
58	В	Μ	Pt. I: Fentanyl	49007
59	W	Μ	Pt. I: Quetiapine	49008
59	В	F	Pt. I: Ethanol, fentanyl, acetyl fentanyl	49008
61	W	Μ	Pt. I: Heroin, fentanyl, trazodone, acetyl-fentanyl	49010
61	В	Μ	Pt. I: Fentanyl, cocaine	49048
61	W	F	Pt. I: Fentanyl	49037
62	В	Μ	Pt. I: Cocaine	49007
62	W	Μ	Pt. I: Methamphetamine	49008
62	W	Μ	Pt. I: Methamphetamine	49004
62	W	Μ	Pt. I: Fentanyl, acetyl-fentanyl, heroin, methamphetamine	49007
63	W	Μ	Pt. I: Fentanyl, methamphetamine	49001
64	В	Μ	Pt. I: Cocaine, ethanol	49037
64	W	Μ	Pt. I: Acetyl-fentanyl, amphetamine, fentanyl, flualprazolam, heroin	49001
67	W	Μ	Pt. II: Methamphetamine, ethanol*	49266
76	W	Μ	Pt. II: Opioid*	49009

* Case is not included in the following report

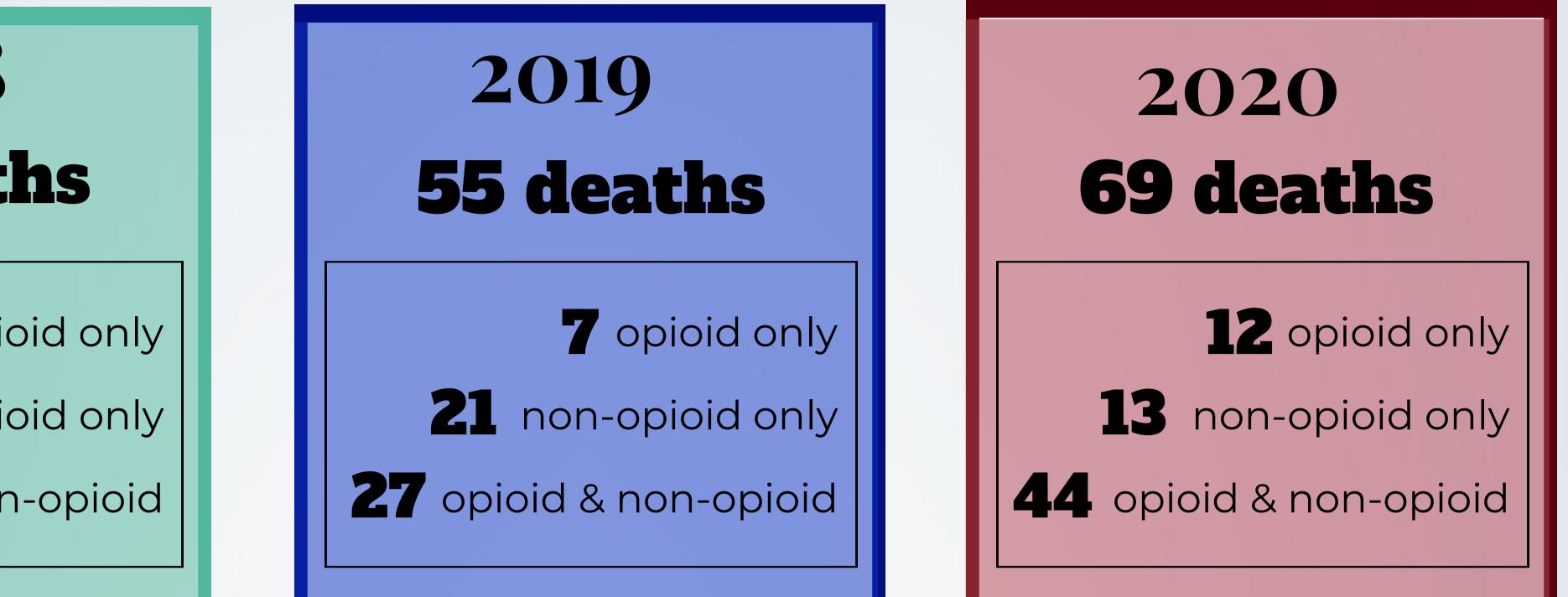
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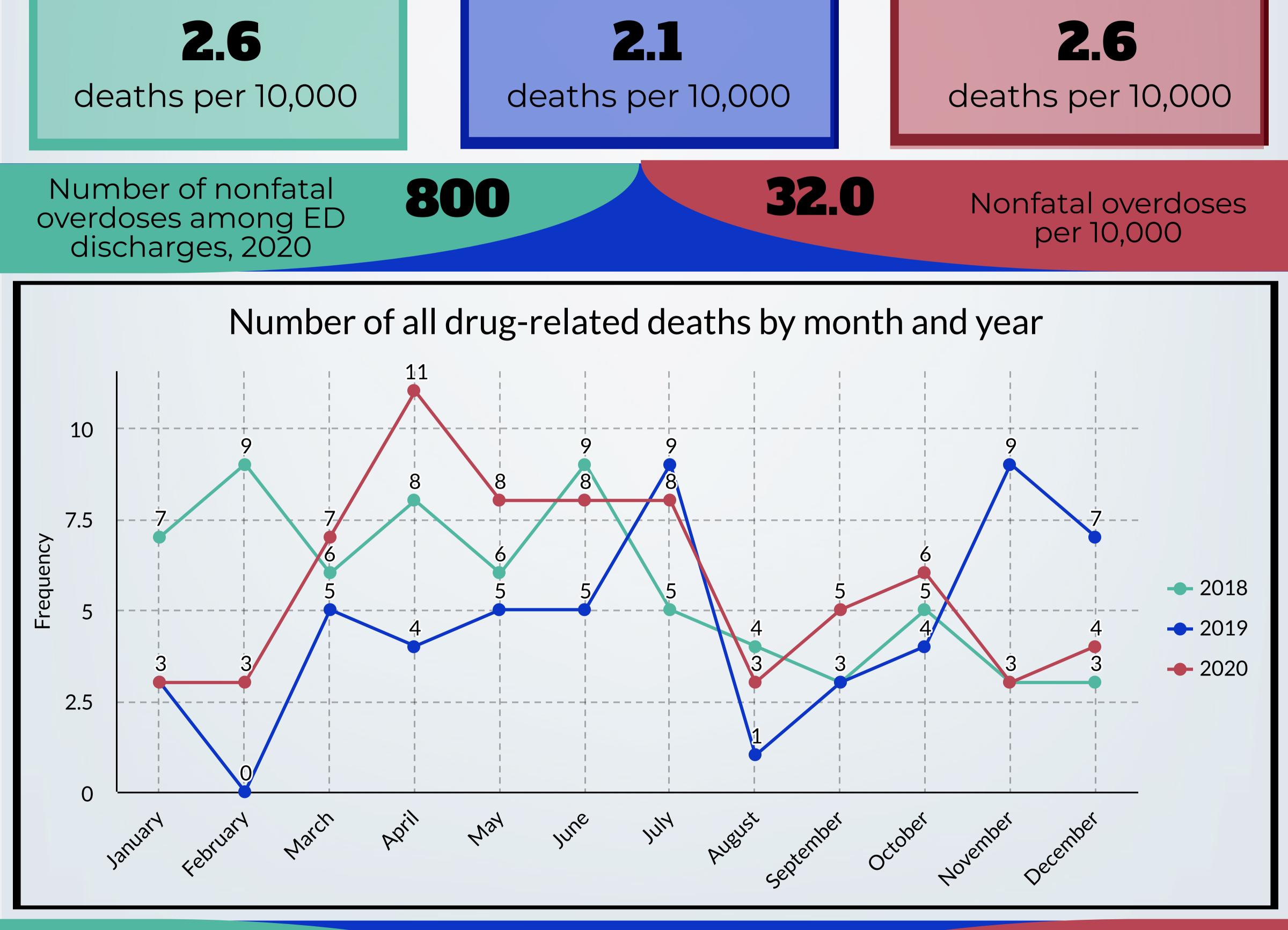
Deaths Related to Opioids and Other Drugs

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<u>Total deaths due to drugs: 2018, 2019, 2020</u>

2018 68 deaths 21 opioid only 15 non-opioid only 32 opioid & non-opioid



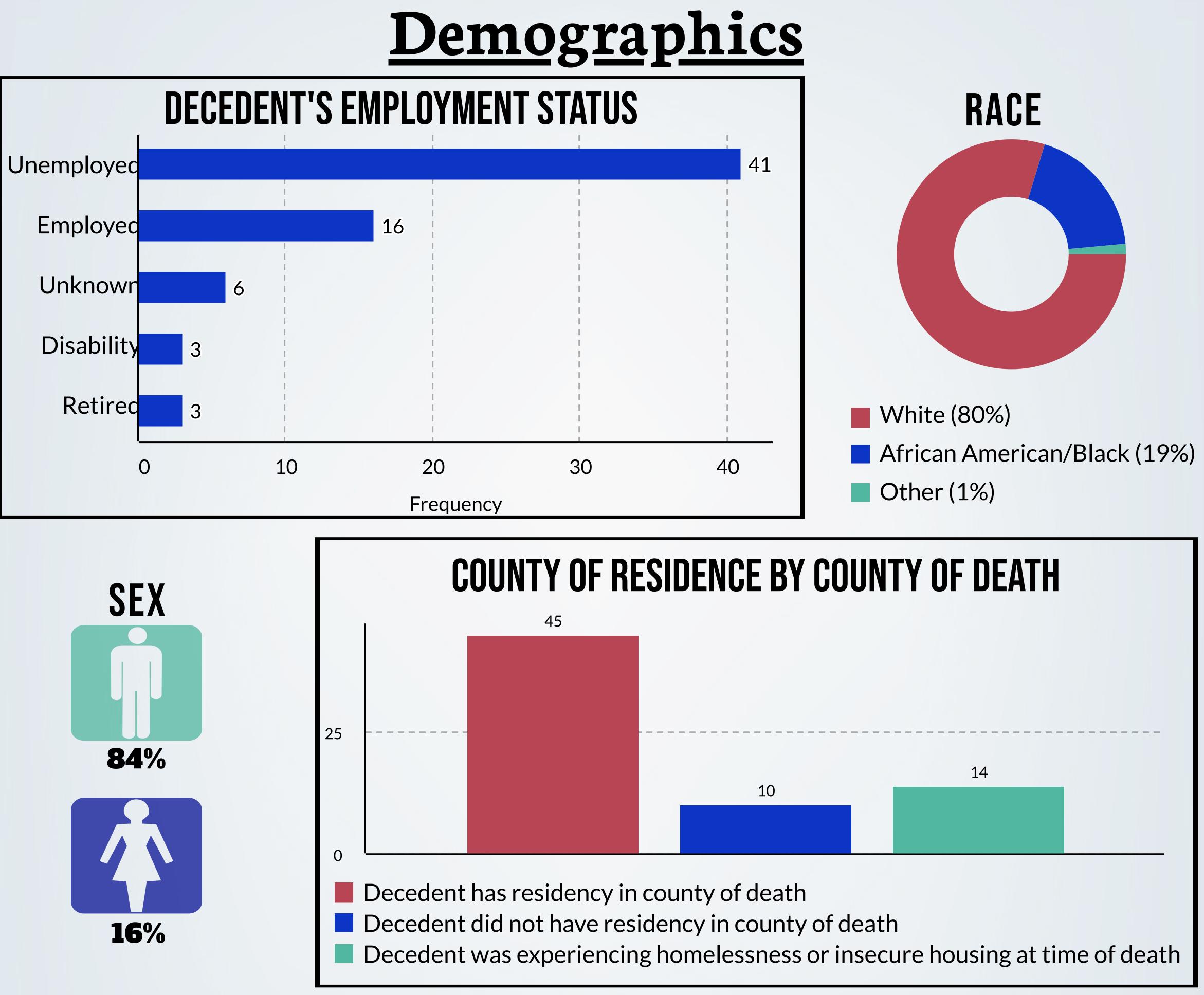


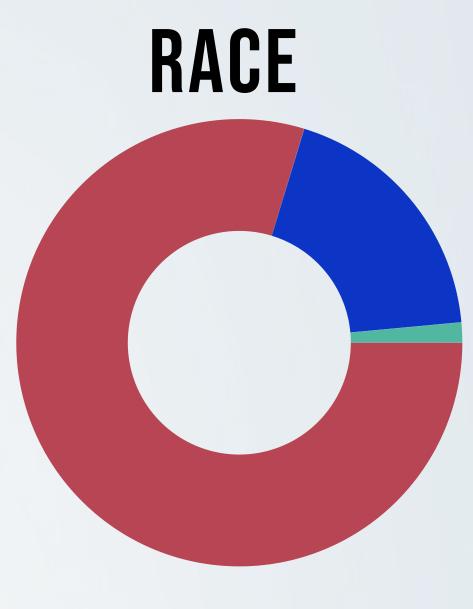
Percent decrease from 2018 to 2019



25% Percent increase from 2019 to 2020

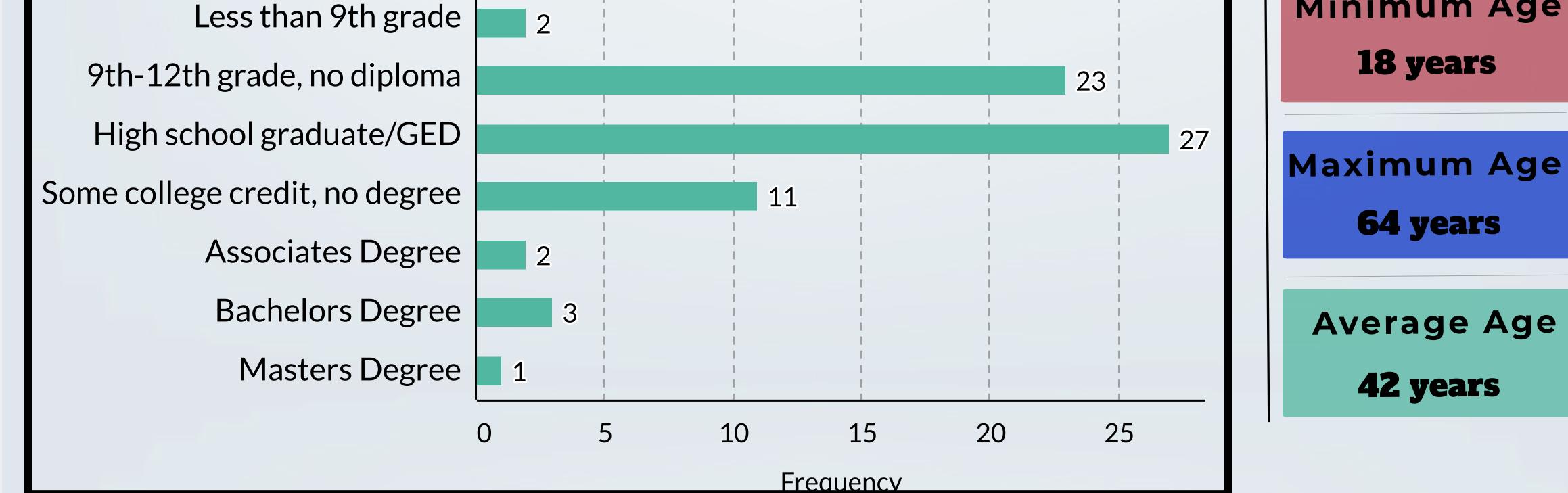
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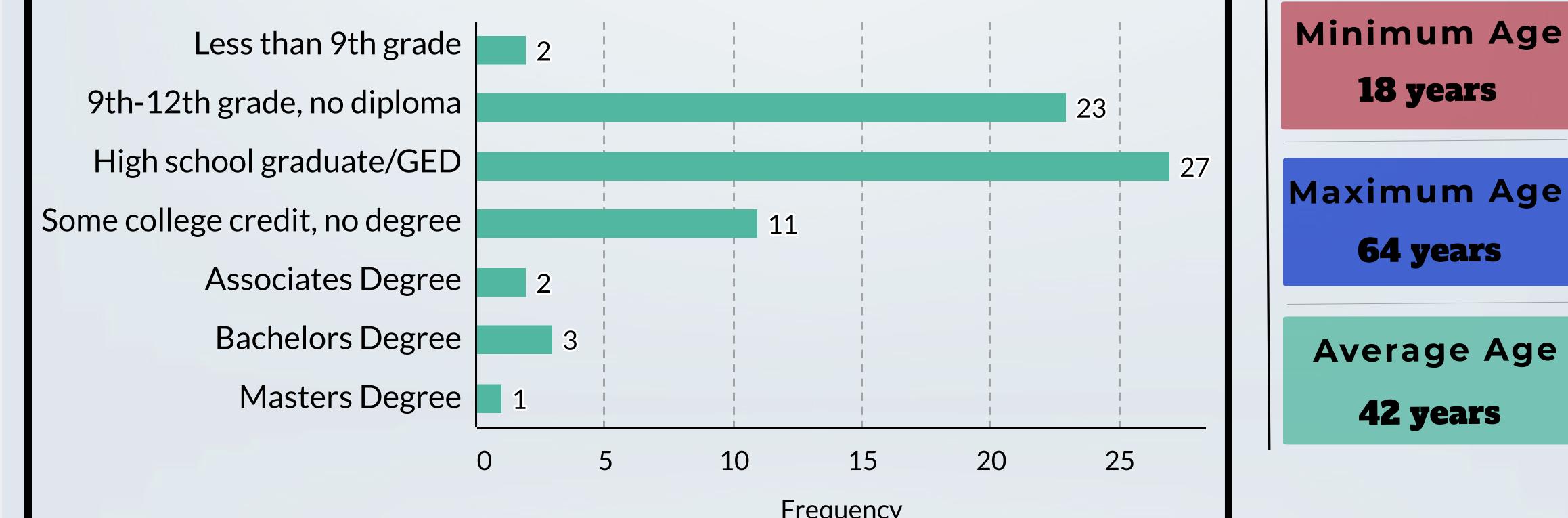




AGE

DECEDENT'S HIGHEST LEVEL OF EDUCATION





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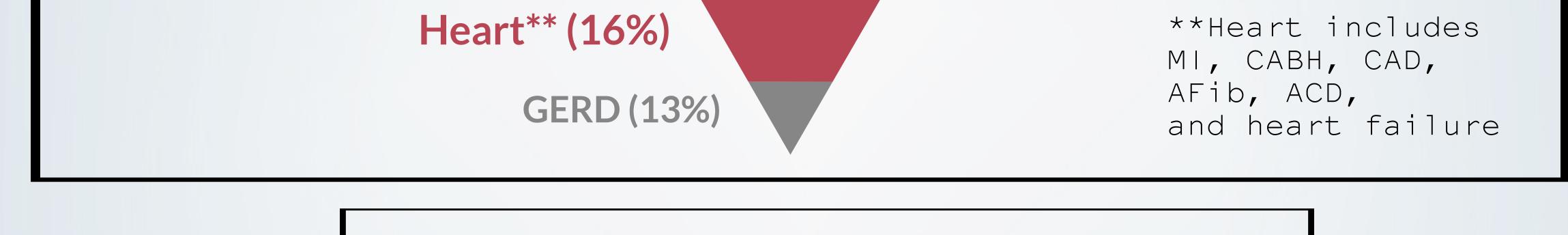
Health Factors

MOST PREVALENT AILMENTS*

Chronic pain (40%)

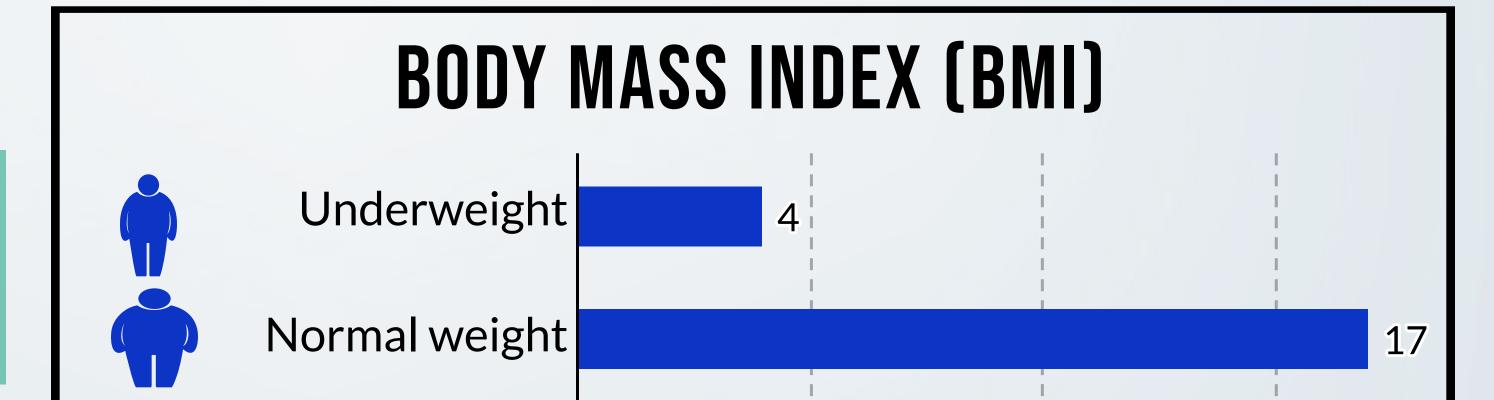
Hypertension (34%)

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

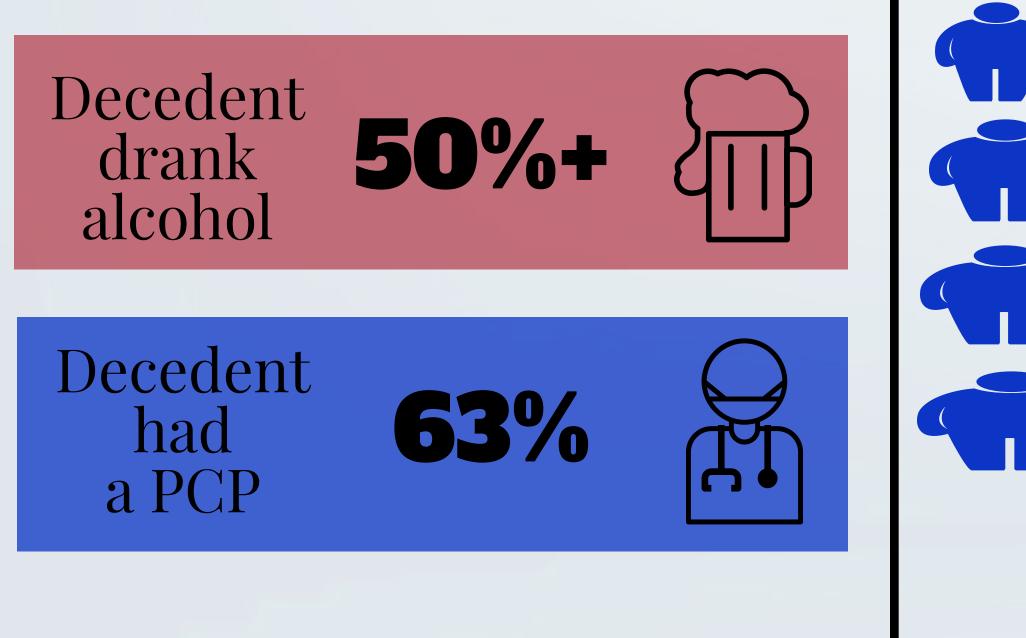


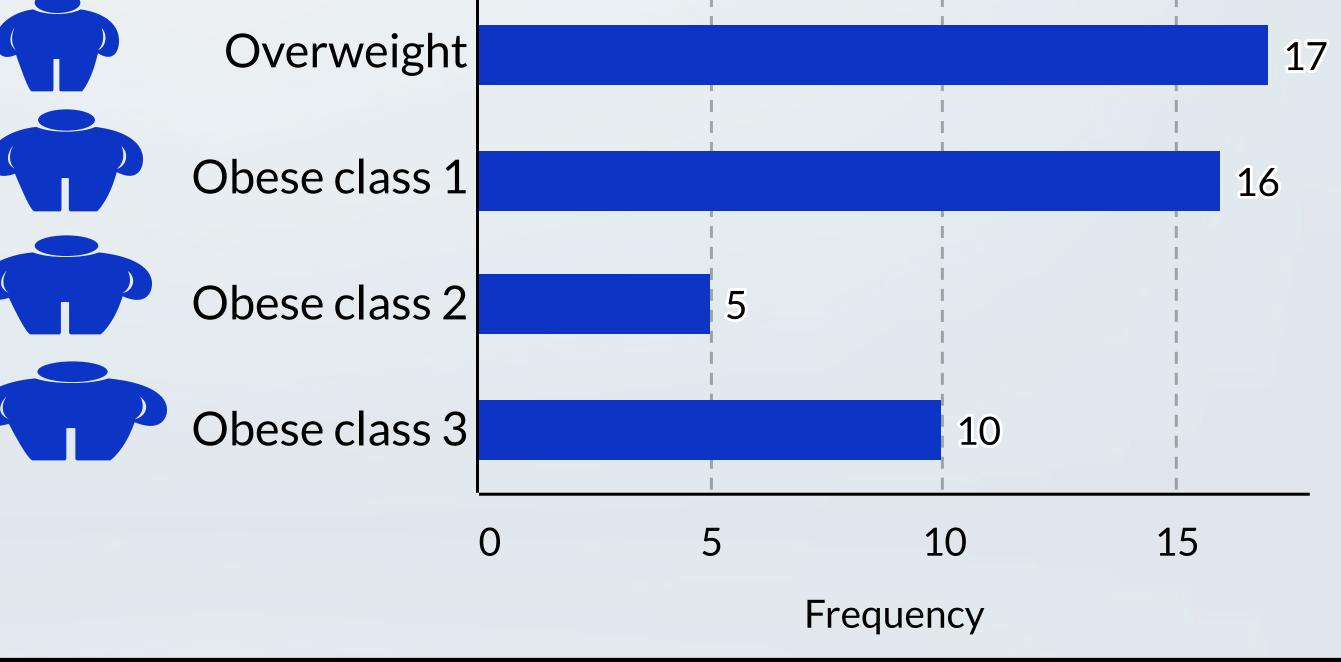


14 of these decedents were
 known to use
substances intravenously



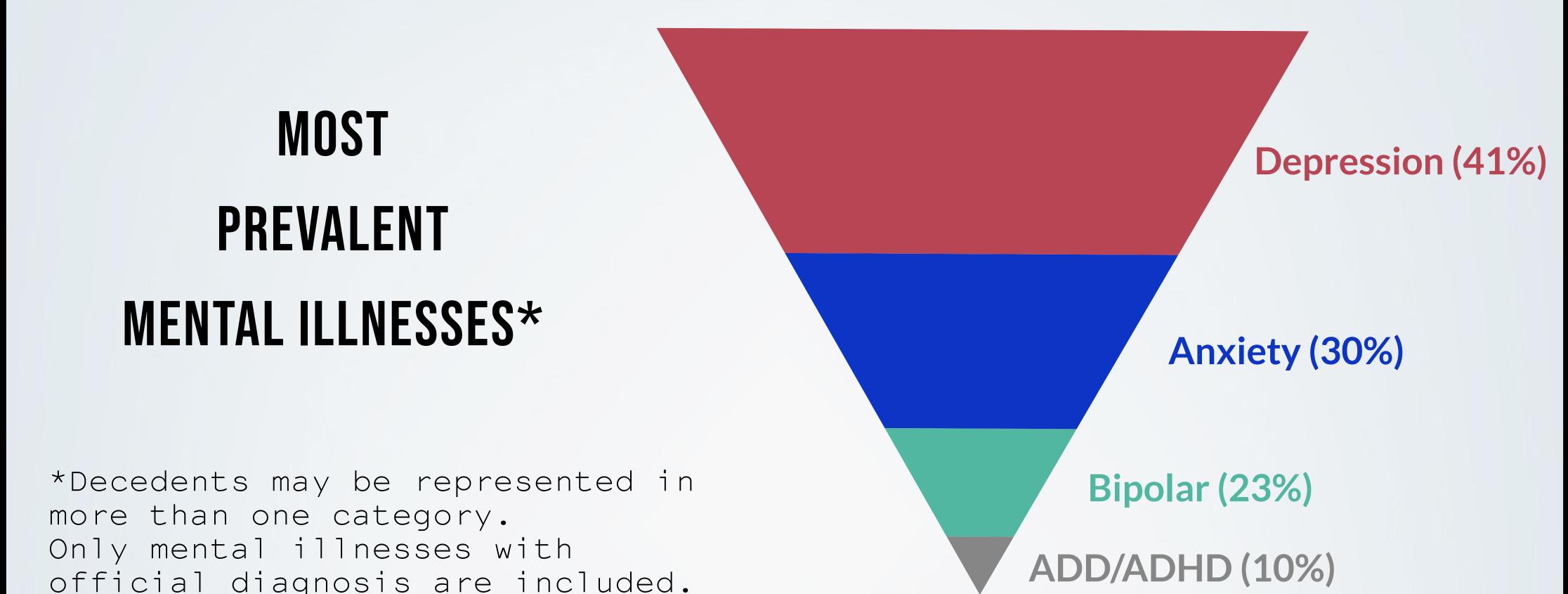




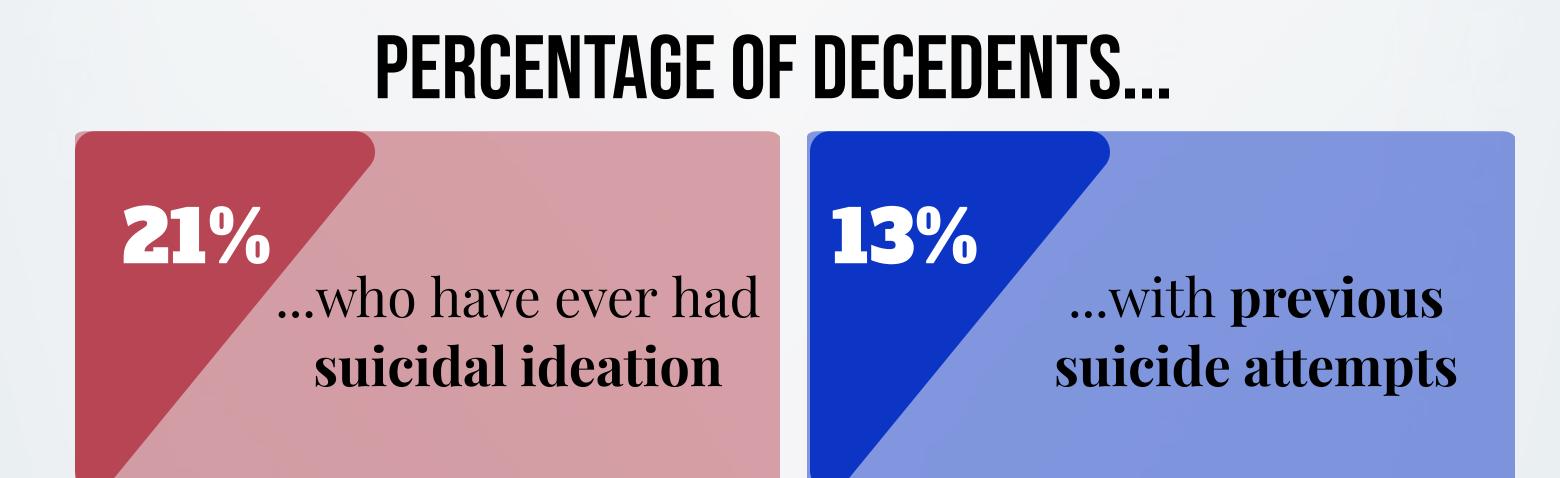


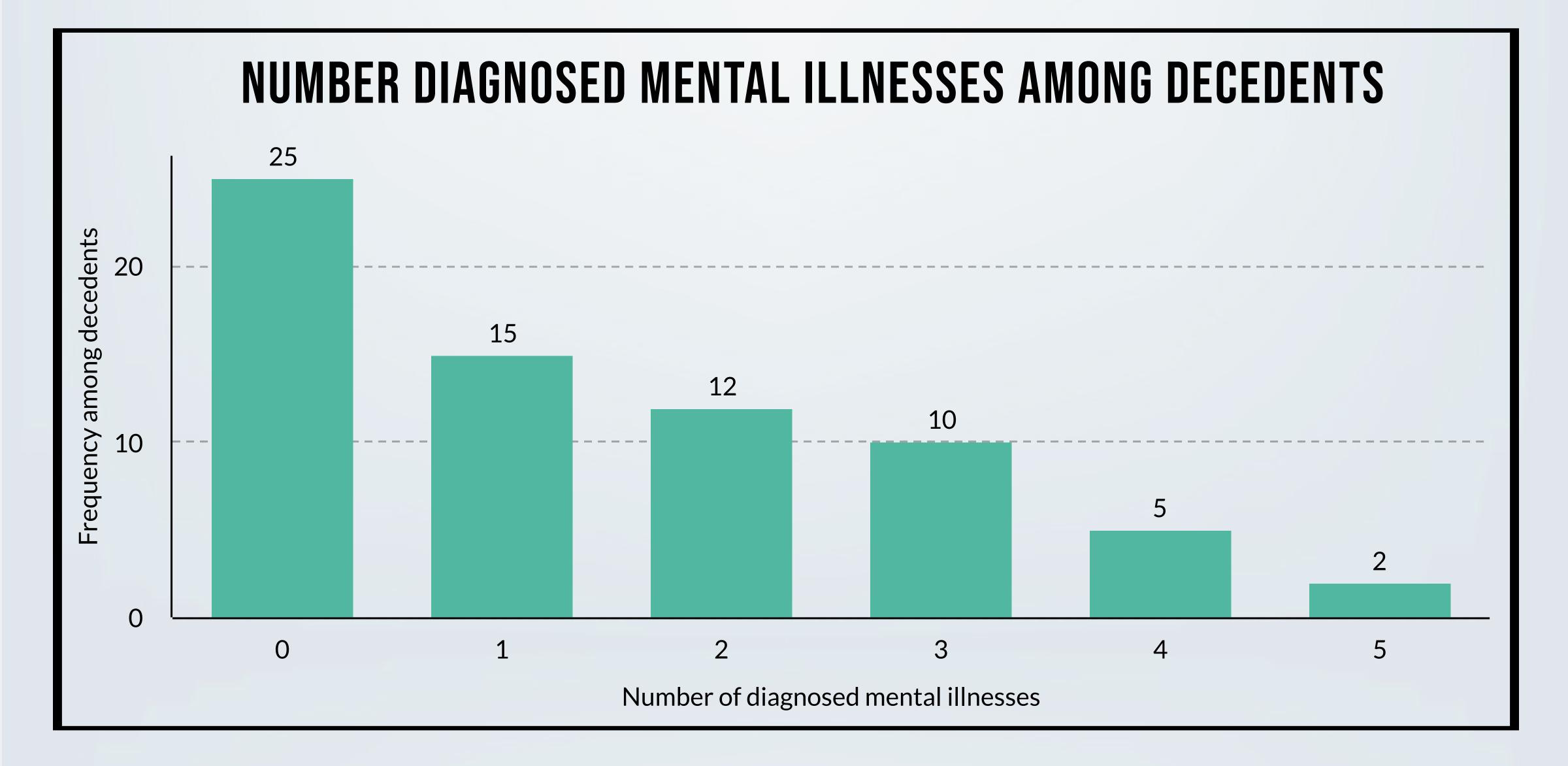
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Mental Health Factors



official diagnosis are included.





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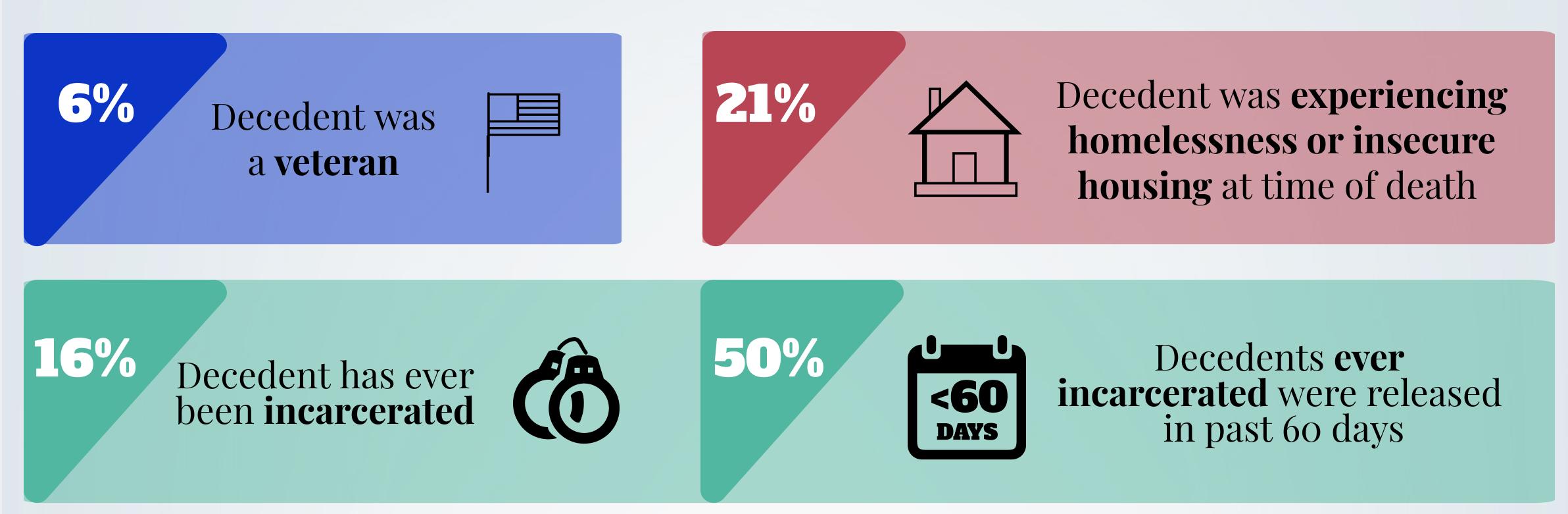
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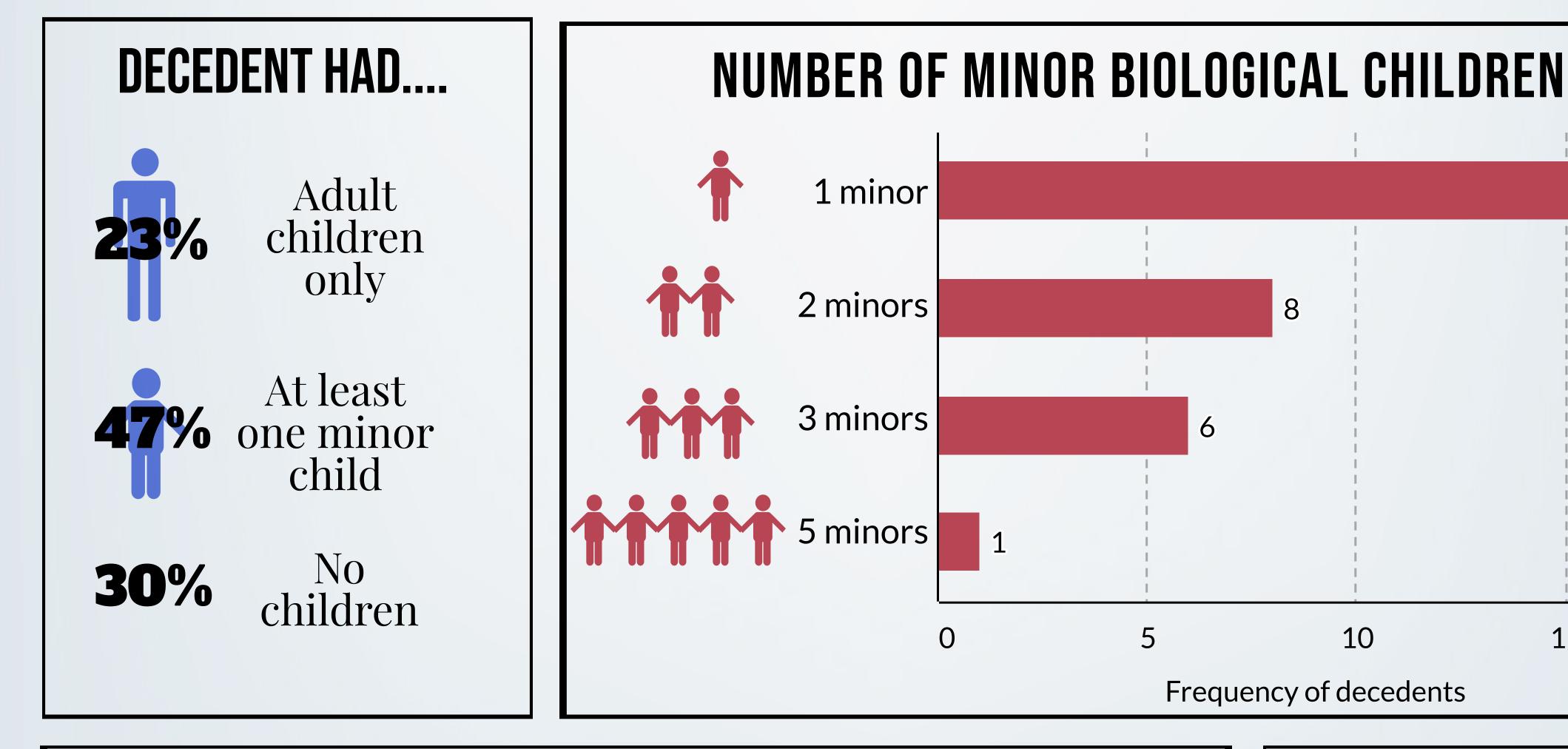
Deaths Related to Opioids and Other Drugs

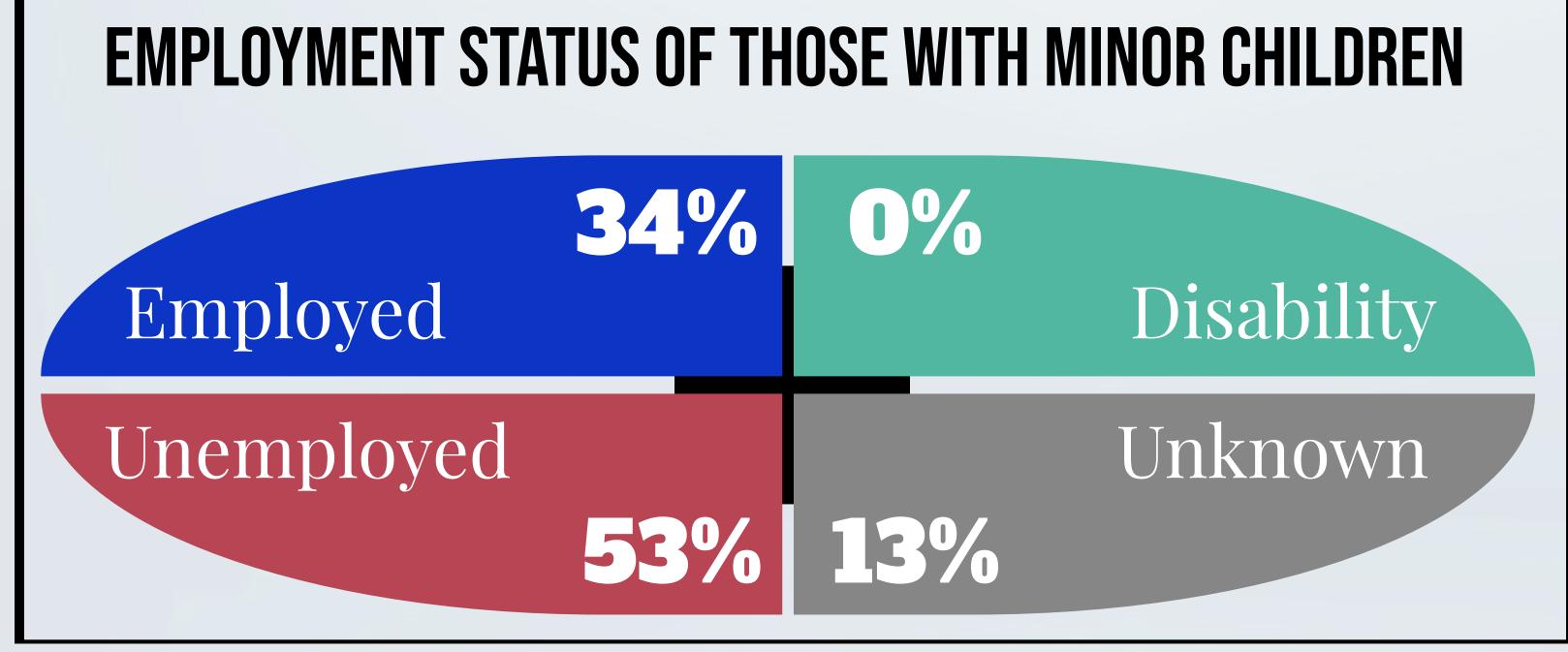
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Social Factors



Children





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

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<u>Substance Use History</u>



prescribed an opioid in the past two years

decedents substance use started from the prescribed opioid

RECOVERY HISTORY (N=62)*

35%

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

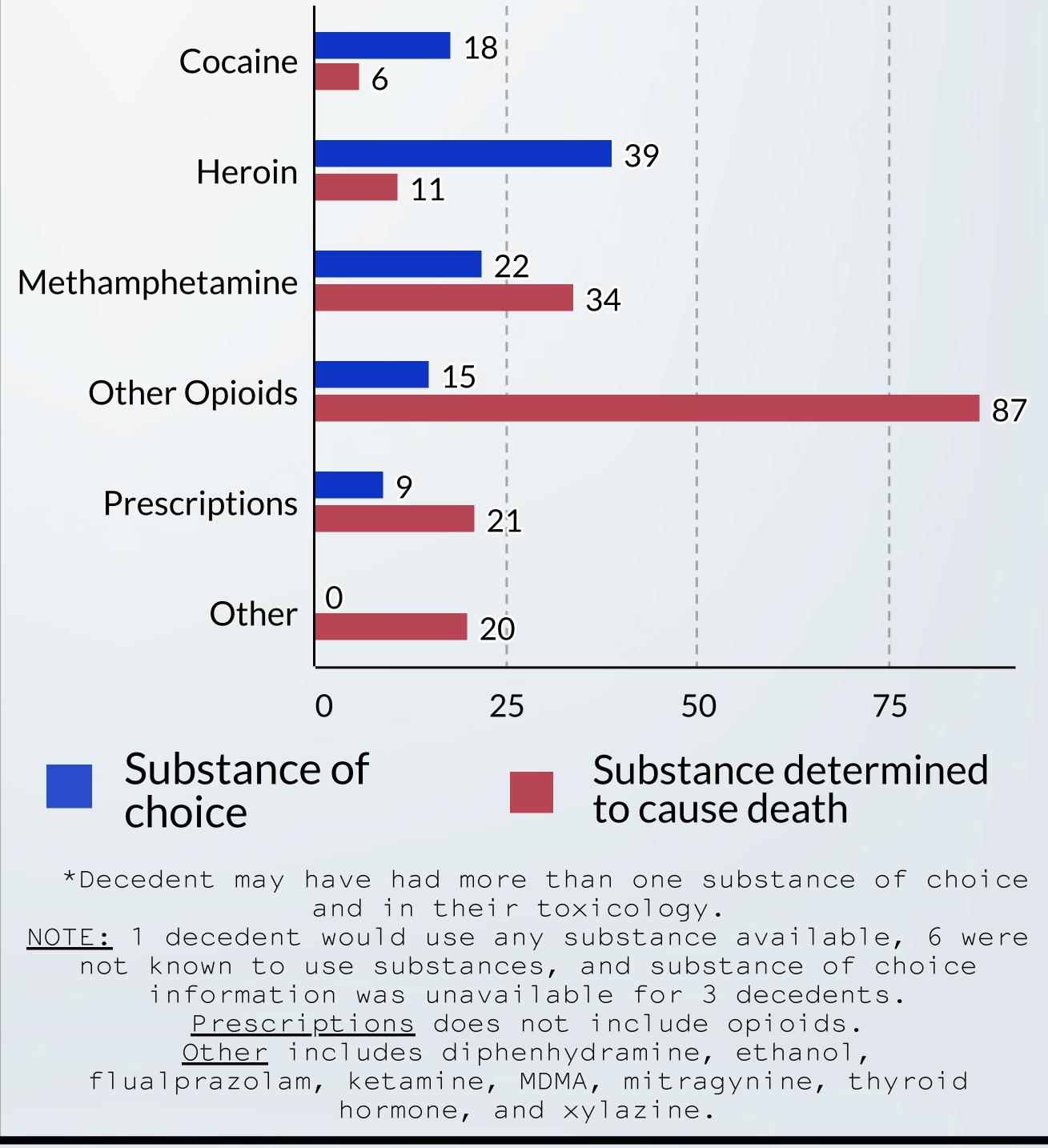
19% Decedent was currently receiving or has received a form of medication-

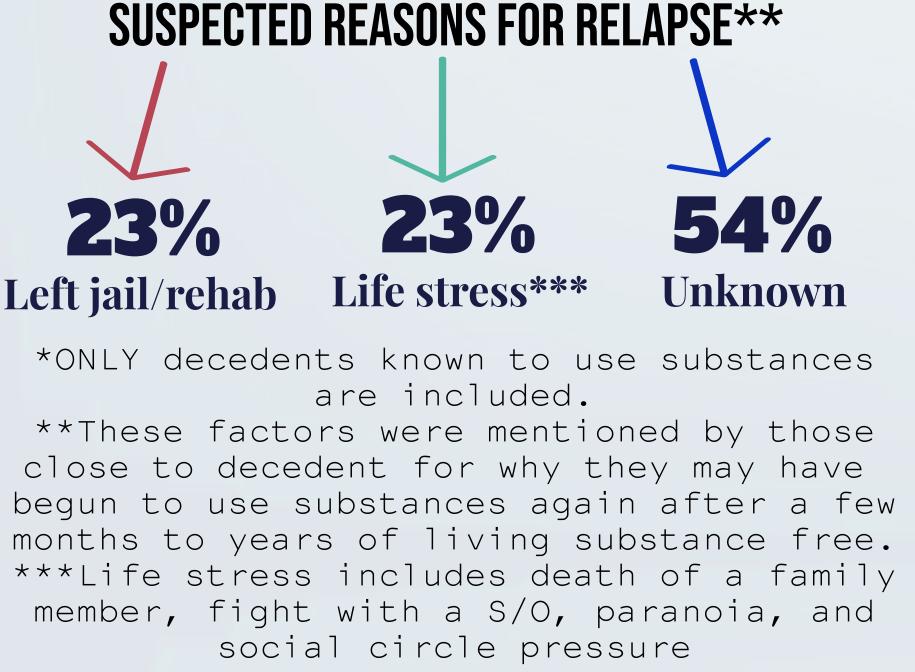
assisted treatment (MAT) in the past two years

35%

Decedent was recently substance free in the past three weeks

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





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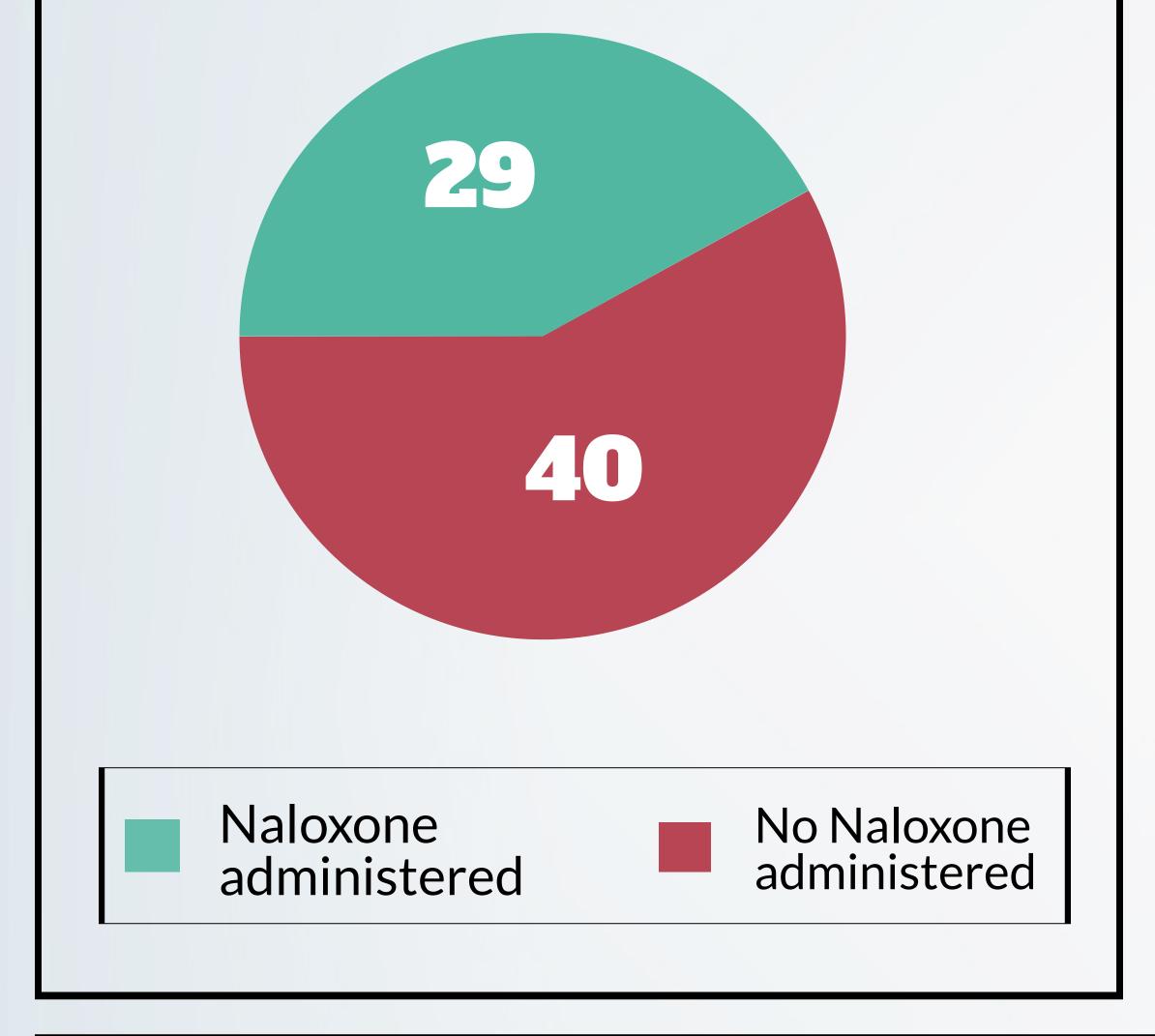
Deaths Related to Opioids and Other Drugs

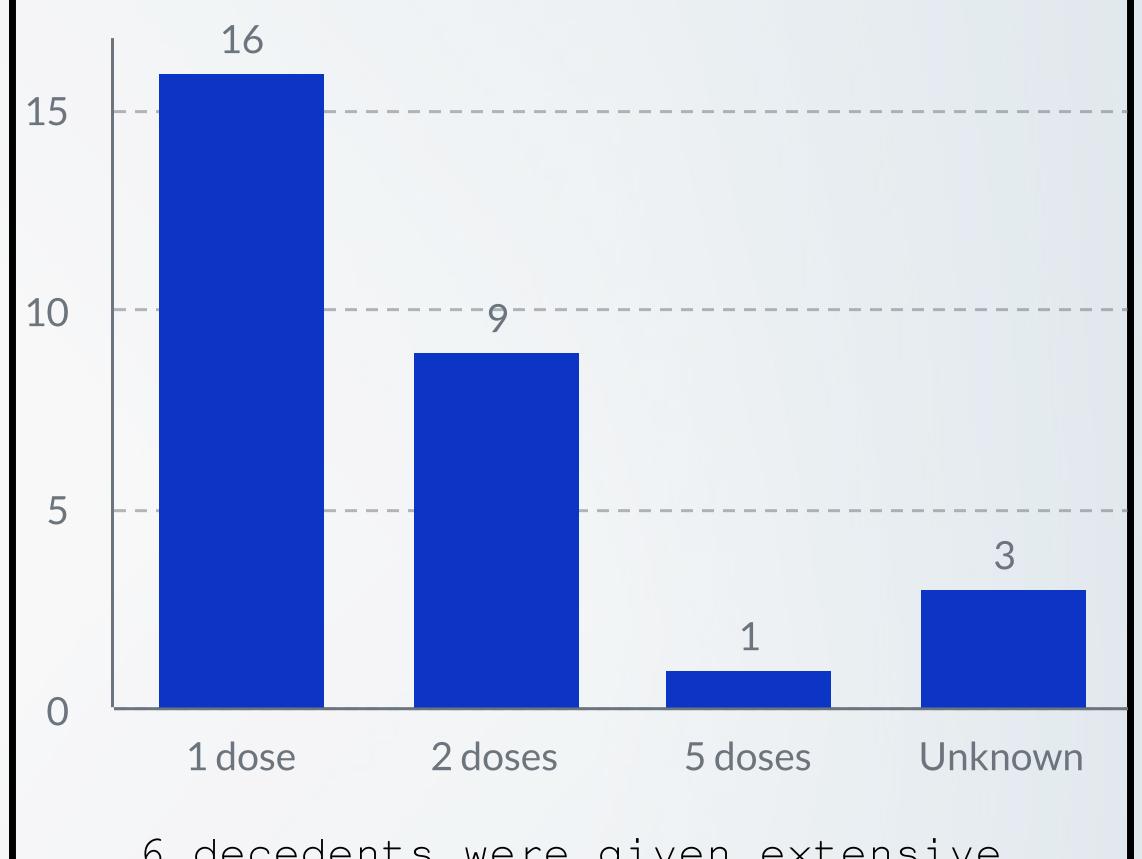
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Naloxone Administration

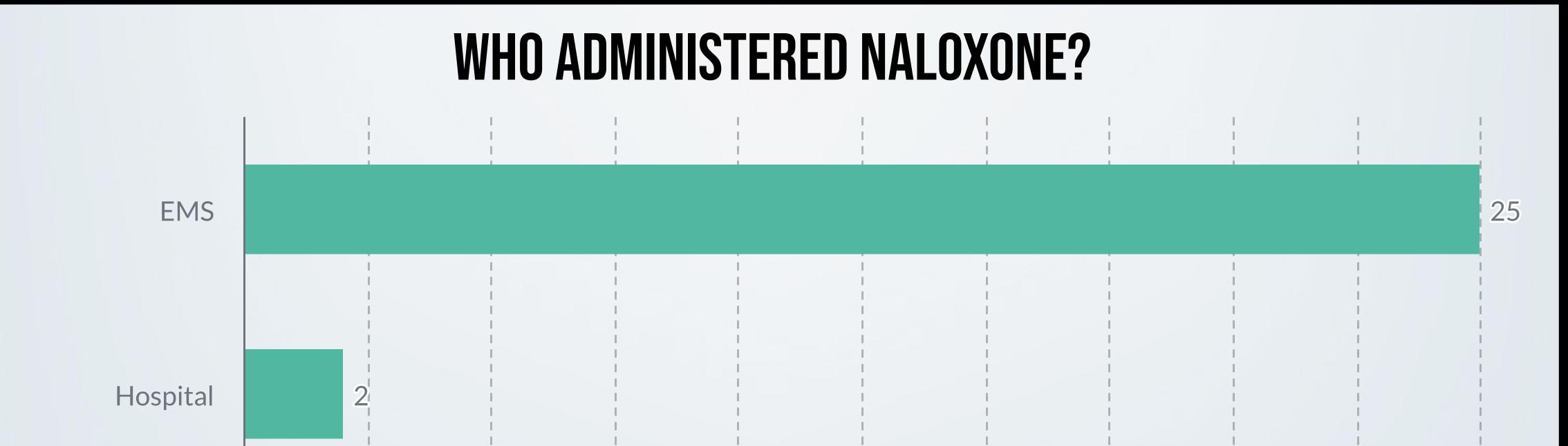
NALOXONE ADMINISTRATION STATUS

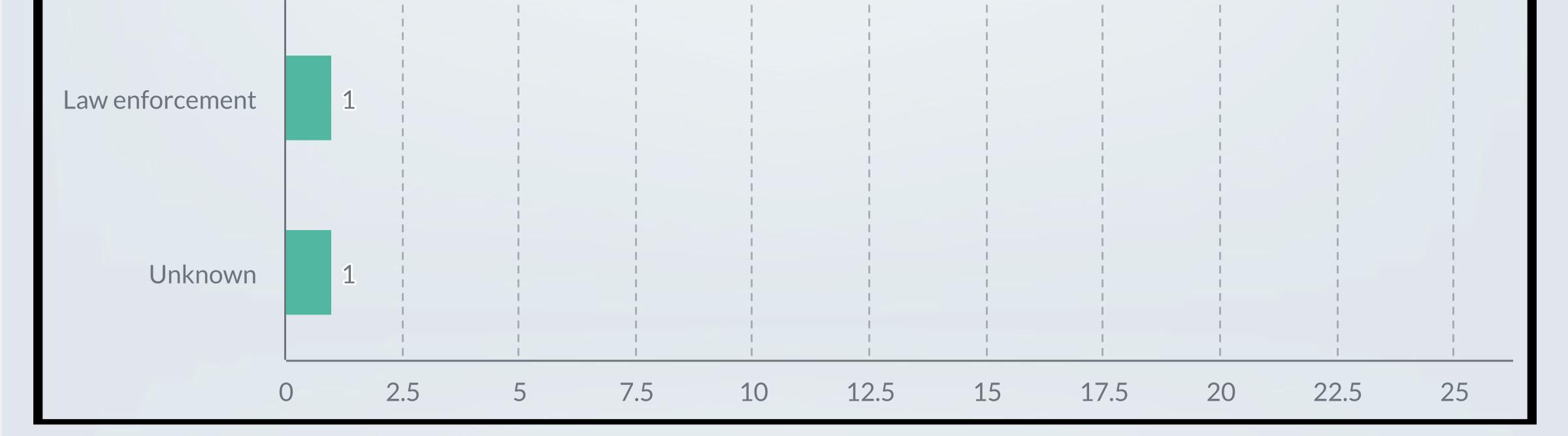
HOW MANY DOSES (2 MG) OF NALOXONE WERE ADMINISTERED





6 decedents were given extensive resuscitative efforts (CPR, epinephrine, AED shock) but were <u>not</u> given Naloxone.





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Deaths Related to Opioids and Other Drugs

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Death Scene Findings

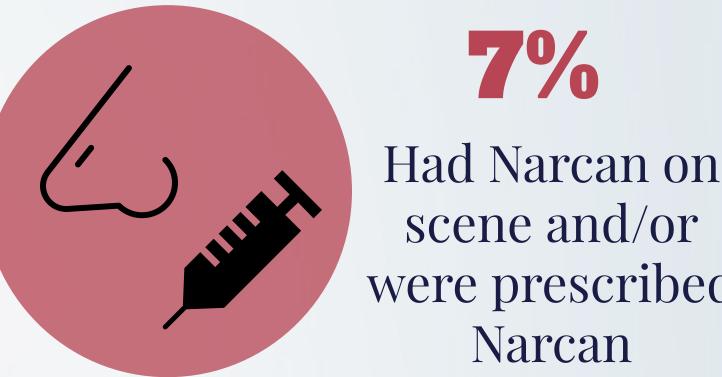








Syringes and suspected illicit drugs were the most common paraphernalia found on scene



Were given Narcan

scene and/or were prescribed



38% Were dead upon EMS arrival



37% Died at the hospital

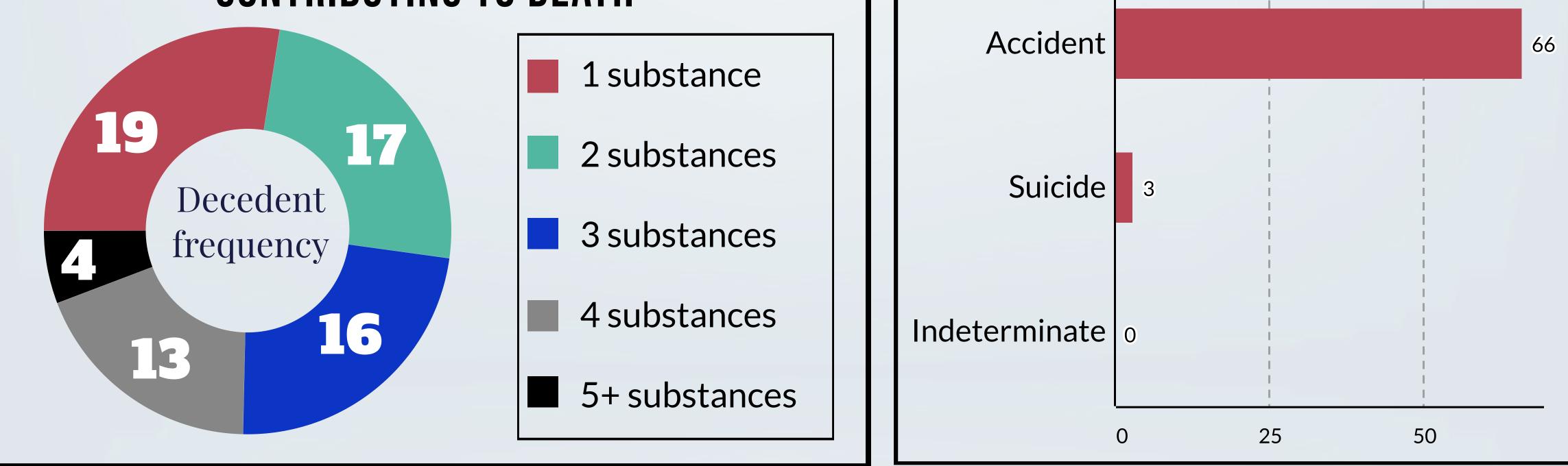


33% Died at their residence

<u>Autopsy and Toxicology Results</u>

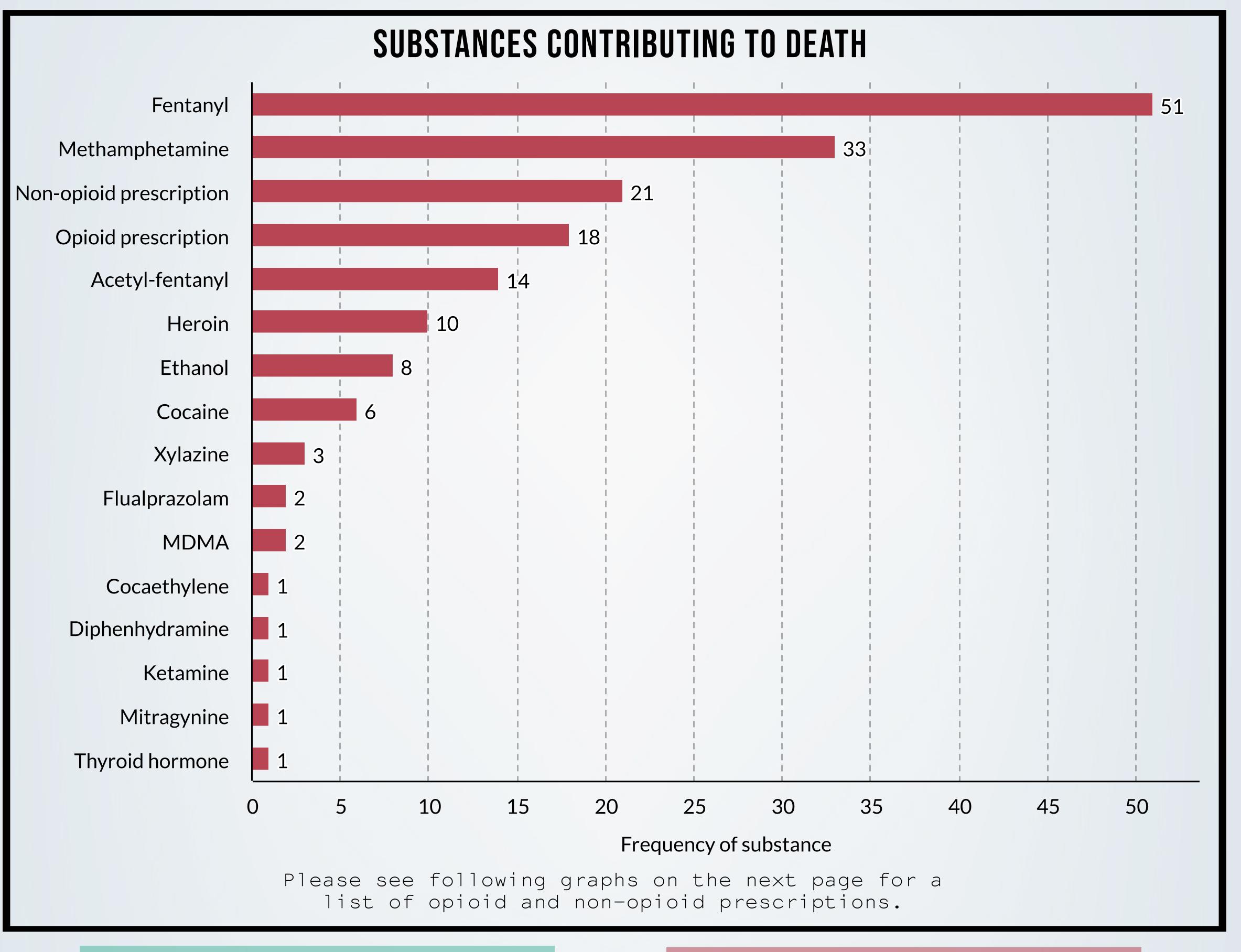
NUMBER OF SUBSTANCES CONTRIBUTING TO DEATH

MANNER OF DEATH



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Substance Breakdown



HEROIN & FENTANYL

10 decedents had heroin in their

XYLAZINE & FENTANYL

3 decedents had xylazine in their



All 10 of these decedents also had fentanyl in their toxicology

toxicology

All 3 of these decedents also had fentanyl in their toxicology

BENZODIAZEPINES & OPIOIDS

7 decedents had a benzodiazepine and an opioid in their toxicology

3 decedents were prescribed that opioid and benzodiazepine

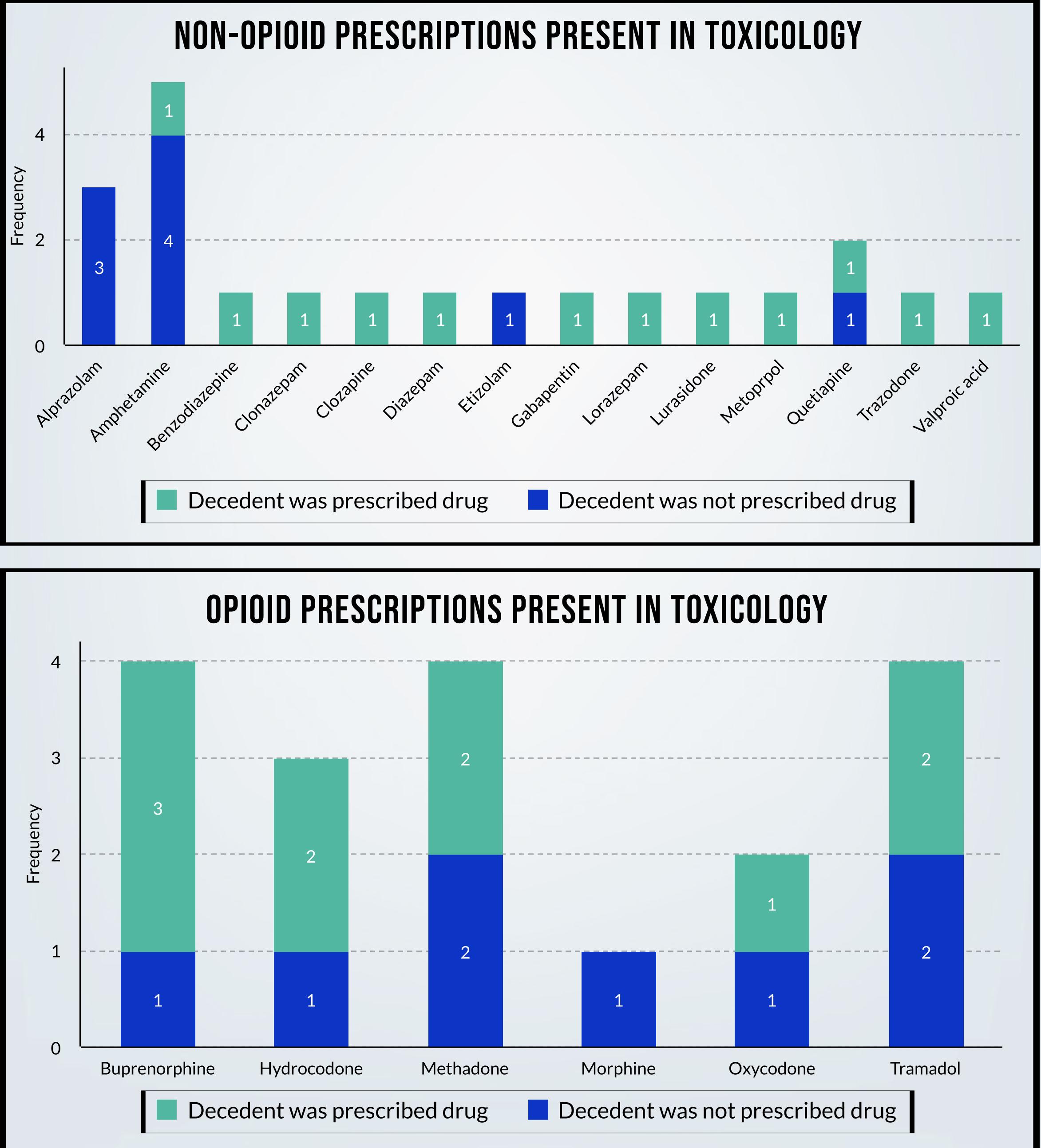
METHAMPHETAMINE & OPIOIDS

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

6 decedents had methamphetamine and heroin in their toxicology

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<u>Autopsy and Toxicology Results, cont.</u>



Note: Of the 51 decedents with fentanyl present in their toxicology, 0 were prescribed fentanyl