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Dedication

This report is dedicated to those who have lost their lives or a loved one to substance use. These losses remind us of the urgent need to raise awareness, challenge the stigma surrounding substance use, and support harm reduction strategies. By doing so, we can honor those we have lost and their families and work together to prevent future tragedies.

Methods, Considerations, and Limitations

This annual report presents the statistics on drug-related deaths in Charleston County for the year 2024. It is important to include the publication year when referencing this data and these reports. The purpose of this report is to provide current statistics to those working to reduce the number of drug-related deaths.

To maintain the integrity of the medicolegal death investigation and show respect for the deceased and their families, all cases presented in this report are organized by their location, as indicated on the accompanying regional map. This report excludes any identifying information about the deceased, including their address, date of birth, social security number, and details regarding next of kin.

Data analyzed in the report is obtained from the Charleston County Coroner's Office case management system, law enforcement (LE) reports, EMS run sheets, death certificates, obituaries, medical records, behavioral health records, toxicology reports, and autopsy reports. The data presented in this report is based on cases of either complete autopsy, toxicology only, or external exams. All manners of fatal drug overdoses (accident, homicide, suicide, and undetermined) are included in this report.

This report compiles data on drugs that cause or contribute to death in drug-related cases. It does not include data on drugs detected that did not contribute to or cause death.

2024 Aggregate Data

Note: B=Black/African American; H=Hispanic; W=White; A=Asian; O=Other; M=Male; F=Female; MOD=Manner of Death; ACC=Accident; SUI=Suicide; HOM=Homicide; and UND=Undetermined.

MOD	Age	Sex	Race	Injury Zip	Death Certificate: Substances Contributing to Death	
ACC	44	M	W	29405	Fentanyl, Xylazine	
ACC	28	F	W	29407	Fentanyl, Heroin	
ACC	35	M	W	29456	Fentanyl, Methamphetamine, Xylazine	
ACC	35	M	W	29414	Fentanyl, Ethanol, Methamphetamine	
ACC	43	M	W	29405	Fentanyl, Acetyl-Fentanyl, Cocaine	
ACC	36	M	W	29414	Ethanol, Cocaine	
ACC	50	F	В	29405	Fentanyl, Diphenhydramine	
ACC	61	M	В	29405	Fentanyl	
ACC	37	M	W	29414	Fentanyl, Xylazine, Alprazolam, Ethanol	
ACC	60	M	В	29406	Fentanyl, Cocaine, Diphenhydramine, Ethanol	
ACC	53	M	W	29405	Fentanyl, Clonazepam, Ethanol, Amphetamine	
ACC	45	M	W	29406	Ethanol, Isopropyl	
ACC	47	M	W	29407	Fentanyl, Para-Fluorofentanyl, Xylazine, Methamphetamine	
ACC	64	M	W	29429	Fentanyl	
ACC	71	M	W	29466	Fentanyl	
ACC	35	F	W	29406	N-Dimethylpentylone, Xylazine, Methamphetamine, Fentanyl, Acetyl-Fentanyl	
ACC	66	M	W	29412	Fentanyl, Oxycodone, Bupropion, Duloxetine, Mirtazapine	
ACC	65	M	W	29412	Oxycodone, Oxymorphone, Pregabalin, Alprazolam	
ACC	51	F	В	29407	Fentanyl, Cocaine	
ACC	59	F	W	29414	Zolpidem, Ethanol	
ACC	32	F	W	29455	Fentanyl, Para-Fluorofentanyl, Xylazine	
ACC	39	F	W	29414	Diazepam, Ethanol	
ACC	64	M	W	29455	Fentanyl, Para-Fluorofentanyl	
ACC	29	M	W	29466	Fentanyl, Xylazine, Mitragynine	
ACC	31	M	W	29418	Fentanyl, Bromazolam, Mitragynine, Methamphetamine	
ACC	24	M	W	29412	Fentanyl, Bromazolam	
ACC	41	F	В	29405	Cocaine	
ACC	55	M	W	29418	Fentanyl, Xylazine, Cocaine, Methamphetamine, Buprenorphine, Gabapentin, Trazadone	
ACC	45	M	W	29466	Fentanyl	
ACC	50	F	W	29414	Methamphetamine	
ACC	57	M	W	29487	Fentanyl, Cocaine, Methamphetamine	
ACC	60	F	В	29405	Fentanyl, Hydrocodone, Gabapentin	
ACC	18	M	W	29412	Fentanyl, Bromazolam, Sertraline, Promethazine	
ACC	54	M	W	29412	Fentanyl, Mitragynine, Ethanol	
ACC	55	M	W	29406	Fentanyl, Xylazine	

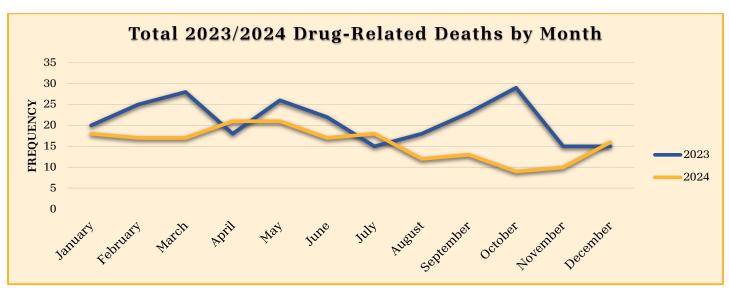
ACC	60	F	W	29464	Zolpidem, Ethanol
ACC	42	M	В	29418	Fentanyl, Cocaine, Methadone
ACC	42	M	W	29418	Amphetamine, Methamphetamine
ACC	30	M	W	29406	Cocaine, Opiates
ACC	56	F	A	29406	Methamphetamine
ACC	64	M	В	29412	Cocaine
ACC	58	M	В	29405	Fentanyl, Cocaine, Ethanol
ACC	58	M	W	29406	Fentanyl, Xylazine, Mitragynine, Ethanol
ACC	33	M	A	29407	Fentanyl, Methamphetamine, Xylazine
ACC	63	M	W	29464	Methadone
ACC	50	M	W	29470	Methamphetamine
ACC	47	F	В	29406	Cocaine, Fentanyl
ACC	40	F	W	29405	Fentanyl, Xylazine, Cocaine
ACC	28	M	W	29464	Fentanyl, Cocaine
ACC	34	M	В	29407	Methamphetamine
ACC	59	F	W	29407	Fentanyl, Cocaine, Bromazolam, Xylazine
ACC	67	M	W	29407	Fentanyl, Cocaine, Oxycodone
ACC	58	F	В	29403	Fentanyl
ACC	67	M	В	29403	Fentanyl, Cocaine
ACC	71	M	В	29405	Fentanyl, Cocaine
ACC	40	M	В	29485	Fentanyl
ACC	32	F	W	29470	Methadone
ACC	48	M	W	29414	Fentanyl, Para-Fluorofentanyl, Methadone
ACC	51	M	W	29418	Fentanyl, Methamphetamine, Diphenhydramine
ACC	33	M	В	29418	Fentanyl, Xylazine
ACC	46	F	W	29418	Fentanyl, Heroin, Xylazine, Methamphetamine
ACC	61	M	В	29455	Fentanyl, Cocaine
ACC	36	F	В	29405	Cocaine, Cocaethylene, Fentanyl, Para-Fluorofentanyl, Ethanol
ACC	28	M	W	29406	Ethanol, Cocaine, Cocaethylene, Methamphetamine
ACC	43	F	W	29438	Methamphetamine
ACC	49	M	W	29466	Cocaine
ACC	58	F	W	29420	Fentanyl, Xylazine, Cocaine
ACC	70	M	В	29403	Cocaine
ACC	37	M	W	29406	Fentanyl, Methamphetamine
ACC	46	M	В	29418	Fentanyl, Ethanol
ACC	46	F	W	29406	Fentanyl, Xylazine, Methamphetamine
ACC	70	M	W	29455	Ethanol, Methadone, Alprazolam
ACC	43	M	W	29456	Fentanyl, Xylazine, Methamphetamine
ACC	54	M	W	29449	Cocaine
ACC	38	M	W	29420	Fentanyl, Cocaine
ACC	77	M	В	29414	Cocaine
ACC	37	F	В	29405	Fentanyl, Cocaine, Ethanol

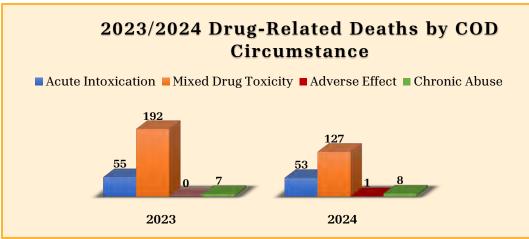
ACC	29	M	Н	29406	Fentanyl, Acetyl-Fentanyl, Cocaine	
ACC	47	M	W	29464	Ethanol	
ACC	54	M	W	29403	Ethanol, Phenobarbital, Bupropion, Buprenorphine, Hydroxyzine, Diazepam	
ACC	40	M	W	29406	Methadone, Methamphetamine	
ACC	38	F	W	29403	Fentanyl, Xylazine, Oxycodone	
ACC	52	M	W	29403	Fentanyl, Cocaine	
ACC	32	M	W	29464	Fentanyl, Nitrous Oxide, Bromazolam, Cocaine	
ACC	24	М	Н	29420	Fentanyl, Cocaine, Ethanol	
ACC	36	M	В	29415	Fentanyl, Cocaine, Xylazine, Methamphetamine	
ACC	62	M	W	29466	Fentanyl, Xylazine, Methamphetamine	
ACC	35	F	В	29403	Fentanyl, Diphenhydramine, Hydromorphone, Promethazine	
ACC	74	F	В	29412	Cocaine	
ACC	57	M	W	29414	Fentanyl, Methamphetamine, Gabapentin	
ACC	33	М	W	29414	Fentanyl	
ACC	42	M	W	29429	Fentanyl, Xylazine, Loperamide	
ACC	45	M	W	29405	Fentanyl, Morphine, Hydromorphone	
ACC	53	M	В	29449	Fentanyl, Cocaine, Ethanol	
ACC	48	M	W	29414	Methamphetamine, Ethanol	
ACC	28	F	W	29405	Fentanyl, Methamphetamine, Morphine, Norbuprenorphine	
ACC	21	M	В	29406	Fentanyl, Methamphetamine, Hydroxyzine	
ACC	68	M	В	29405	Cocaine	
ACC	42	F	W	29407	Fentanyl, Heroin, Mitragynine	
ACC	53	M	W	29414	Bromazolam, Hydrocodone, Hydromorphone, Alprazolam	
ACC	58	F	В	29455	Cocaine	
ACC	64	M	W	29407	Fentanyl, Oxycodone, Diphenhydramine, Memantine, Alprazolam	
ACC	59	F	W	29405	Cocaine, Benzodiazepines	
ACC	24	F	W	29464	Fentanyl, Cocaine, Methamphetamine, Bromazolam, Ethanol	
ACC	62	M	В	29464	Cocaine	
ACC	63	M	В	29407	Fentanyl, Cocaine	
ACC	49	M	W	29406	Methamphetamine	
ACC	46	M	В	29406	Fentanyl, Methamphetamine	
ACC	55	F	W	29405	Fentanyl, Methamphetamine, Xylazine, Cocaine	
ACC	36	F	В	29403	Cocaine	
ACC	43	M	W	29406	Methamphetamine, Cocaine, Haloperidol, Aripiprazole	
ACC	62	M	W	29464	Methamphetamine, Cocaine	
ACC	50	F	W	29407	Fentanyl, Alprazolam, Hydroxyzine	
ACC	41	F	W	29429	Fentanyl, Amphetamine, Cyclobenzaprine, Alprazolam	
ACC	45	M	W	29456	Fentanyl, Xylazine, Methamphetamine	
ACC	85	M	W	29414	Cocaine	
ACC	64	M	В	29405	Fentanyl, Cocaine, Xylazine, Ethanol	
ACC	50	M	W	29407	Fentanyl, Cocaine, Ethanol	
ACC	49	F	W	29464	Cocaine	

ACC	44	M	W	29414	Fentanyl, Cocaine, Xylazine
ACC	59	M	В	29405	Fentanyl, Cocaine, Xylazine
ACC	65	M	В	29405	Methamphetamine
ACC	51	M	В	29405	Fentanyl, Ethanol
ACC	42	F	W	Unkn	Fentanyl
ACC	73	M	В	29403	Cocaine
ACC	52	M	В	29455	Cyclobenzaprine, Dextro-Levo-Methmorphan, Clonazepam, Acetaminophen
ACC	69	M	В	29403	Fentanyl, Xylazine, Cocaine, Ethanol
ACC	36	M	W	29485	Fentanyl, Xylazine, Methamphetamine
ACC	50	F	В	29407	N-Pyrrolidino Protonitazene, Cocaine, Fentanyl
ACC	59	M	W	29406	Cocaine
ACC	37	M	W	29407	Fentanyl, Xylazine, Ethanol
ACC	56	M	В	29458	Methamphetamine
ACC	48	M	В	29405	Cocaine
ACC	32	M	W	29412	Unknown Substances
ACC	64	M	В	29406	Cocaine, Ethanol
ACC	47	M	W	29407	Fentanyl, Cocaine, Xylazine, Mitragynine
ACC	42	M	В	29405	Fentanyl, Xylazine, Ethanol
ACC	52	F	W	29418	Fentanyl, Xylazine, Methamphetamine
ACC	36	M	W	29414	Fentanyl, Cocaine, Ketamine
ACC	49	M	W	29412	Fentanyl, Cocaine
ACC	37	M	W	29405	Methamphetamine
ACC	56	M	В	29406	Cocaine
ACC	67	M	В	29405	Fentanyl, Xylazine, Cocaine, Ethanol
ACC	35	M	W	29407	Fentanyl, Cocaine
ACC	55	M	В	29412	Fentanyl
ACC	20	M	W	29407	Fentanyl
ACC	51	M	В	29405	Cocaine
ACC	44	M	W	29414	Cocaine
ACC	37	M	W	29412	Fentanyl, Ethanol
ACC	61	M	В	29407	Fentanyl, Xylazine, Heroin, Ethanol
ACC	22	M	W	29405	Fentanyl, Xylazine, Amphetamine
ACC	56	M	В	29466	Fentanyl, Xylazine, Cocaine
ACC	40	M	W	29485	Fentanyl, Methamphetamine
ACC	45	M	В	29466	Cocaine
ACC	60	F	В	29406	Oxycodone, Oxymorphone
ACC	42	M	W	29406	Fentanyl, Bromazolam, Methamphetamine
ACC	73	M	W	29455	Cocaine
ACC	55	M	В	29406	Cocaine
ACC	68	M	В	29412	Cocaine
ACC	51	M	В	29485	Fentanyl, Cocaine, Ethanol
ACC	68	M	В	29414	Fentanyl, Methamphetamine

ACC	62	M	W	29414	Amitriptyline, Alprazolam, Ethanol	
ACC	30	F	W	29407	N-Pyrrolidino Protonitazene, Mitragynine, Temazepam	
ACC	21	M	W	29455	Fentanyl, Heroin	
ACC	22	M	W	29406	Fentanyl	
ACC	45	M	W	29456	Fentanyl, Xylazine	
ACC	35	F	W	29406	Methamphetamine	
ACC	35	M	W	29414	Fentanyl	
ACC	55	M	W	29464	Cocaine, Ethanol	
ACC	76	M	В	29403	Cocaine	
ACC	26	F	W	29405	Fentanyl, Xylazine, Methamphetamine	
ACC	67	M	В	29403	Cocaine	
ACC	48	M	W	29414	Fentanyl, Xylazine	
HOM	94	F	W	29420	Morphine, Lorazepam, Haloperidol, Citalopram/Escitalopram	
HOM	0	F	В	29456	Fentanyl	
SUI	36	F	W	29414	Amitriptyline	
SUI	45	F	W	29406	Venlafaxine	
SUI	34	M	A	29406	Cocaine, Methamphetamine, Doxepin, Ethanol, Olanzapine, Hydroxyzine, Citalopram/Escitalopram	
SUI	43	M	W	29414	Fentanyl, Methamphetamine, Cocaine, Sertraline	
SUI	51	F	W	29456	Amitriptyline, Nortriptyline, Zolpidem, Quetiapine, Lorazepam, Dextro-Levo- Methmorphan	
SUI	48	F	W	29418	Ethanol, Diphenhydramine	
SUI	27	M	W	29414	Rocuronium	
SUI	69	F	W	29412	Ethanol, Alprazolam, Citalopram	
SUI	55	M	W	29406	Morphine	
SUI	51	M	W	29407	Fentanyl, Cocaine, Ethanol, Alprazolam, Diphenhydramine	
SUI	83	F	W	29414	Acetaminophen, Hydrocodone, Oxycodone, Trazadone	
UND	68	F	W	29405	Oxycodone, Phentermine, Gabapentin, Olanzapine, Duloxetine, Promethazine, Clonazepam	
UND	49	F	W	29456	Fluoxetine, Oxycodone, Gabapentin, Clonazepam	
UND	63	F	W	29407	Oxycodone, Diphenhydramine, Diazepam	

2023 vs 2024 Drug-Related Deaths





2023 •254 Total 2024 •189 Total

13% Decrease from

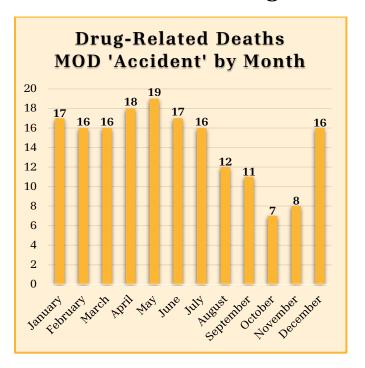
2023 to 2024

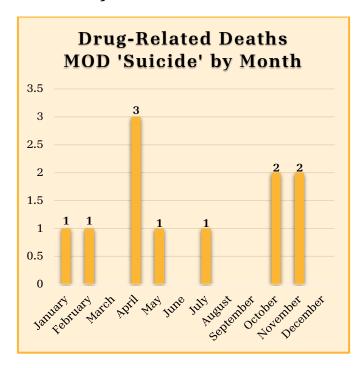
Both graphics include the MODs of Accident, Suicide, Homicide, and Undetermined.

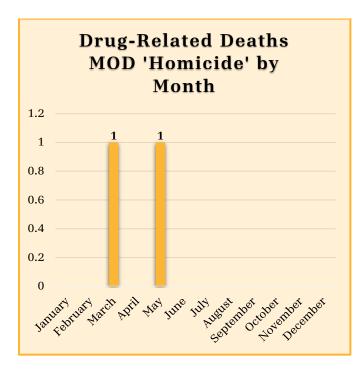
Cause of Death (COD) Circumstance Types Described:

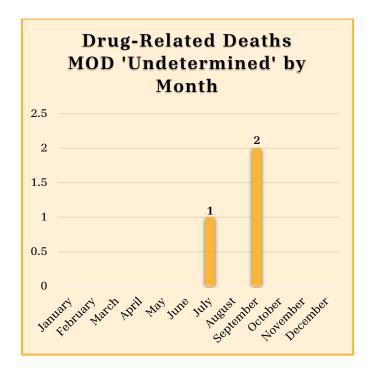
- Acute Intoxication: Death resulting from one substance.
- Mixed Drug Toxicity: Death resulting from two or more substances.
- Adverse Effect: Death resulting from the consumption of medication as prescribed that is followed by adverse drug interactions or an allergic reaction.
- Chronic Abuse: Death resulting from pathological stress or disease developed as a result chronic use/abuse of substances.

2024 Drug-Related Deaths by Manner



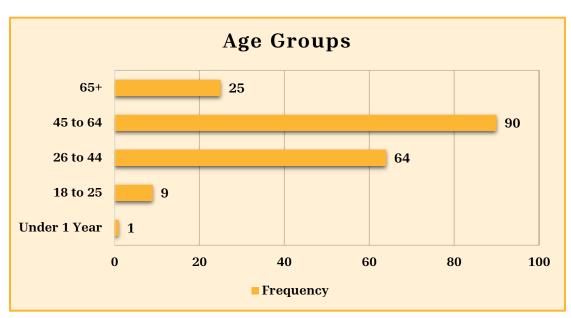




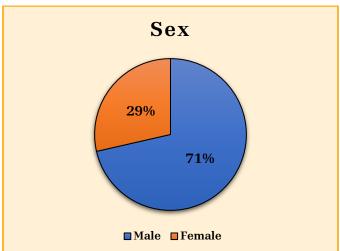


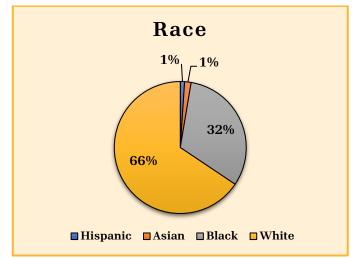
2024 Total Drug-Related Deaths by Manner							
Accident Suicide Homicide Undetermined							
173	11	2	3				
92%	6%	1%	2%				

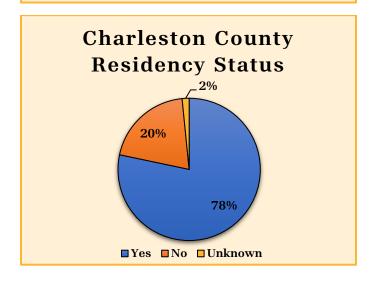
Demographics

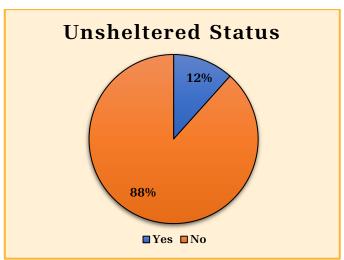


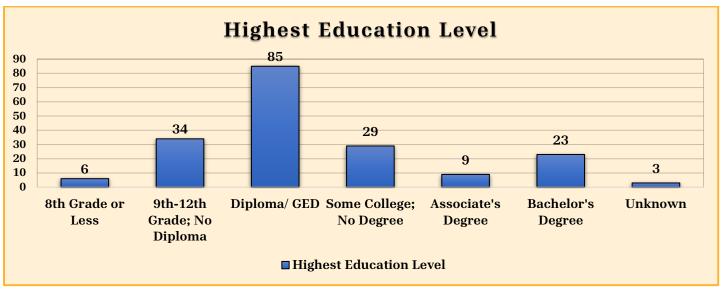


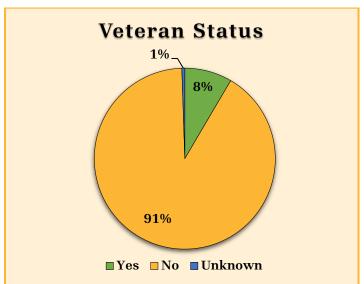


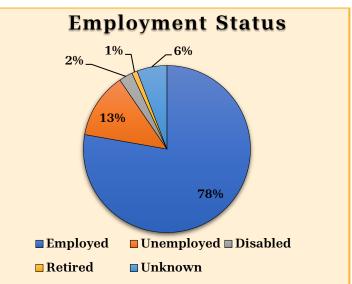


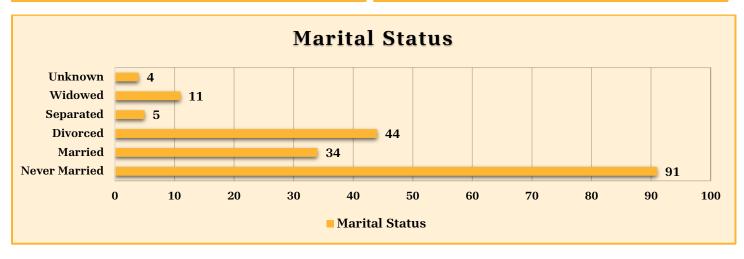






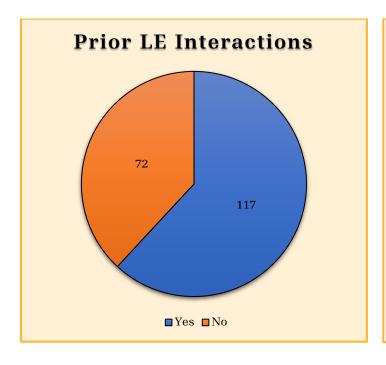


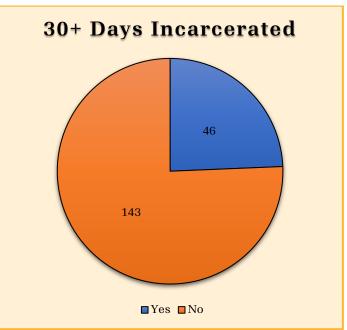


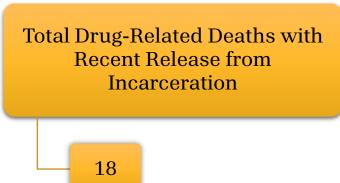


Data Notes: All data in the '2024 Drug-Related Deaths Demographics' section of this report was obtained from items 1-23c and 51-55 on the Death Certificate, which is completed by the Funeral Director.

Law Enforcement Interactions





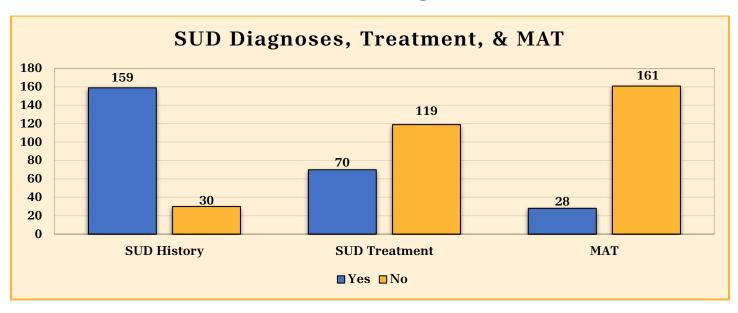




Data Notes-Law Enforcement Interactions

- Prior Law Enforcement (LE) interactions= Documented arrests regardless of charges.
- 30+ Days Incarcerated= 30 or more consecutive days spent incarcerated after being booked into a jail/ detention center.

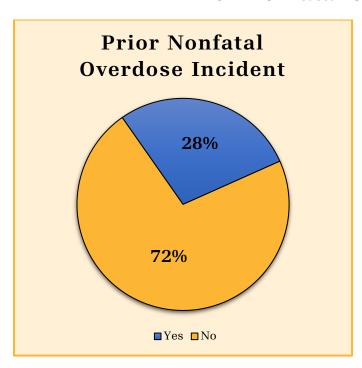
Substance Use Disorder Diagnoses & Treatment

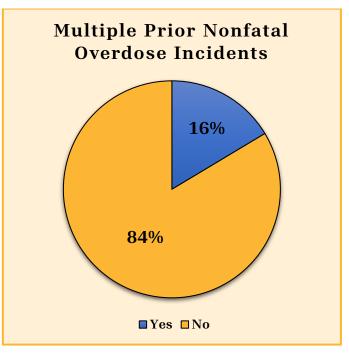


Data Note: SUD Diagnoses, Treatment, & MAT

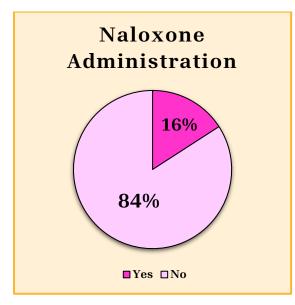
- SUD=Substance Use Disorder; MAT=Medication Assisted Treatment.
- SUD Treatment= The deceased individual attended rehab, inpatient or outpatient services from a SUD treatment provider, or was attending counseling for their substance use.
- All data included was confirmed via family reports, medical records, and PDMP records.

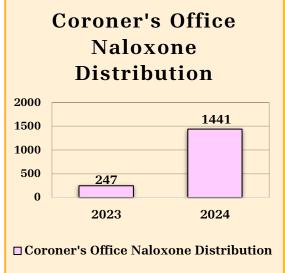
Prior Nonfatal Overdose Incidents

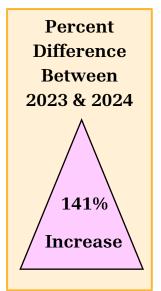


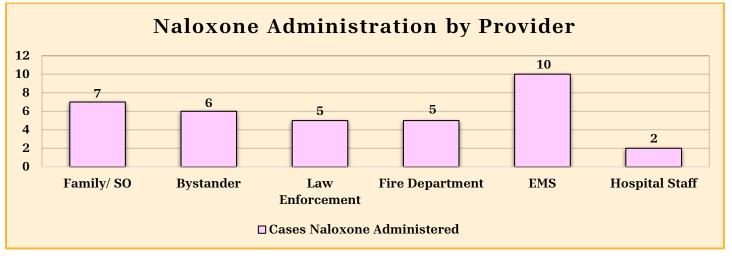


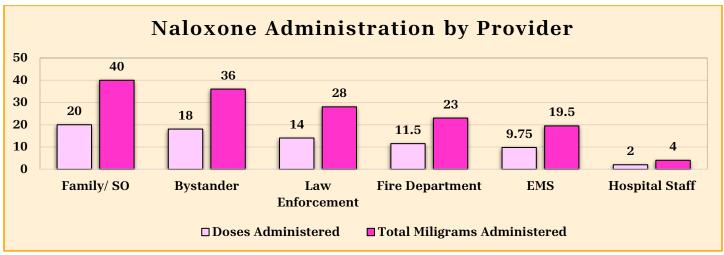
Naloxone Administration & Distribution





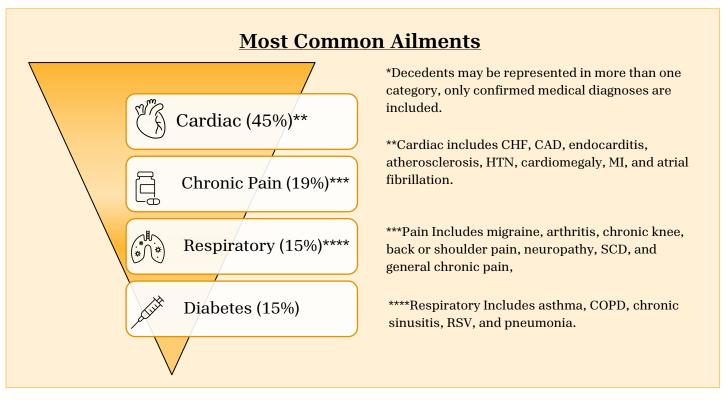






Data Note: Standard dose of Naloxone is 2mg

Health Factors

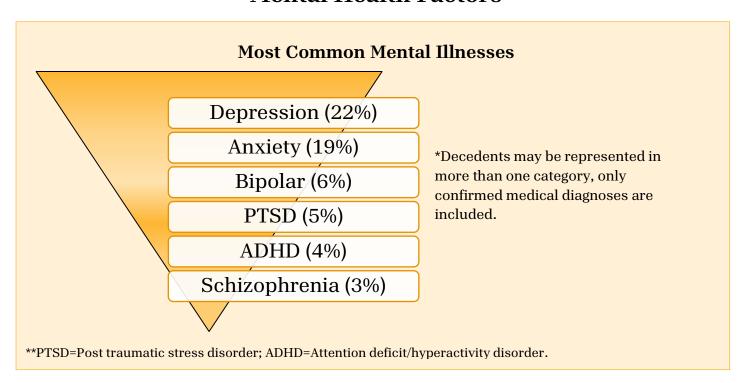


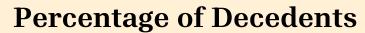
CHF=Congestive heart failure; CAD=coronary artery disease; HTN=Hypertension; MI=Myocardial infarction; SCD=Sickle cell disease; COPD= Chronic obstructive pulmonary disease; RSV=Respiratory syncytial virus.

8 decedents were Hepatitis C Positive 2 decedents were HIV positive

9 decedents had a history of Strokes 6 decedents had Cancer diagnoses

Mental Health Factors





...with a diagnosed mental illness

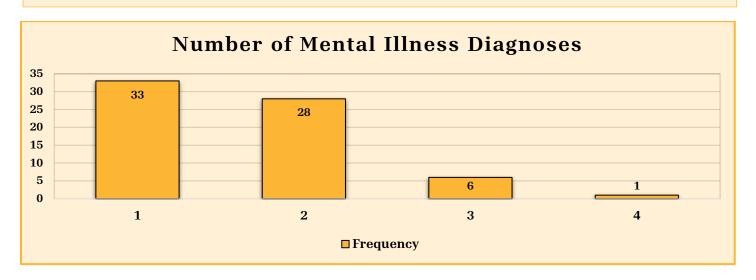
36%

...who have had suicidal ideation

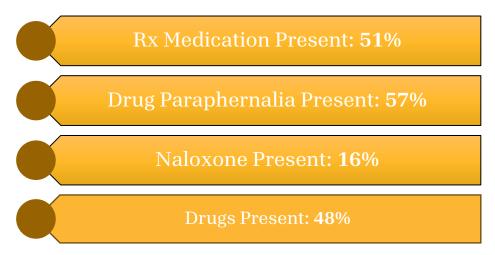
10%

...with previous suicide attempts

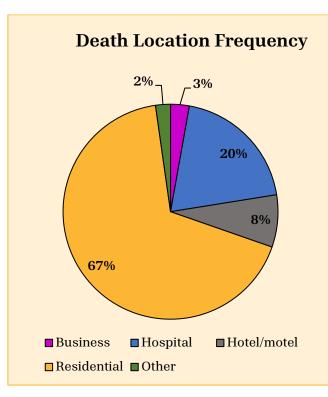
3%

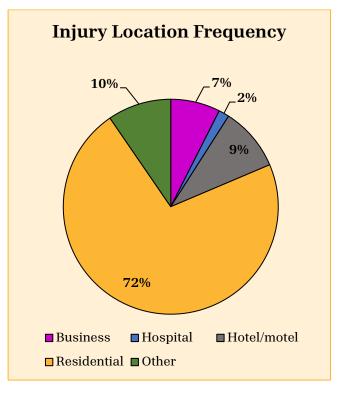


Scene Findings



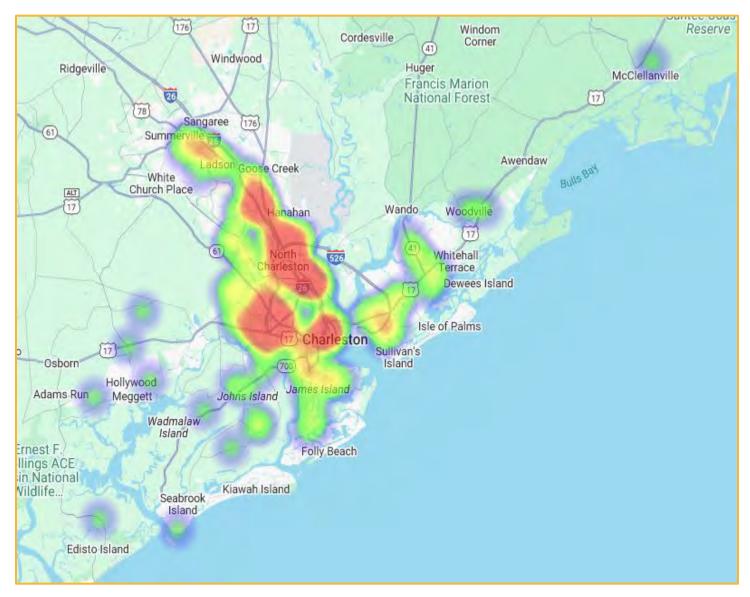
Injury & Death Location





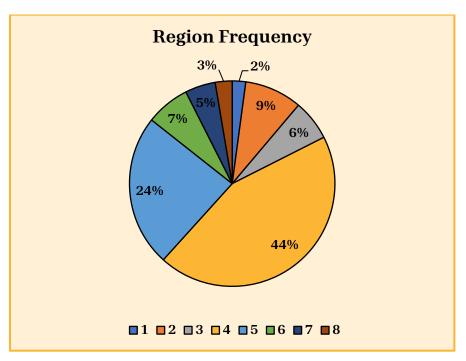
- Injury location can be different from death location in some cases typically due to individuals being transported to the hospital followed by pronouncement of death.
- Other-Death Location= Abandoned Building (1); Tugboat (1); Church (1); City Park (1).
- Other-Injury Location= Unknown (1); Wooded Area (11); City Park (1); Church (1); Car (2); Bus Stop (1); Tugboat (1); Abandoned Building (1).

2024 Charleston County Heatmap

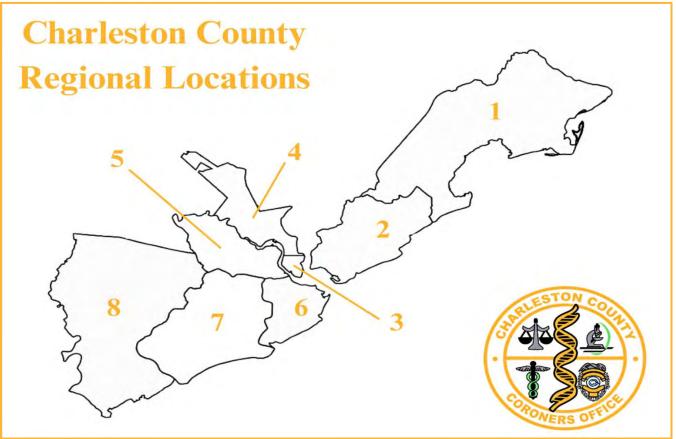


Note: The heatmap references the injury location associated with cases with a manner of death of Accident, Homicide, Suicide, and Undetermined.

Regional Location







Note: The Region Map references the injury location associated with cases with a manner of death of Accident, Homicide, Suicide, and Undetermined.

Rapid Blood Screening

The Charleston County Coroner's Office performs qualitative rapid blood screening on all in-house autopsies and toxicology-only cases using a Randox[®] Evidence MultiSTAT unit that detects 20 different drugs of abuse (Figure 36). The Coroner's Office largely adheres to the National Association

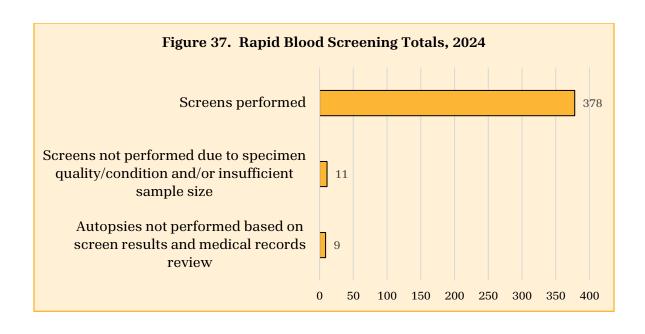
of Medical Examiners recommendation that all suspected drug-related deaths undergo full autopsy, regardless of screening results. Screening guides investigations, especially when illicit drugs are detected in decedents who were not originally suspected to have died due to drug toxicity.

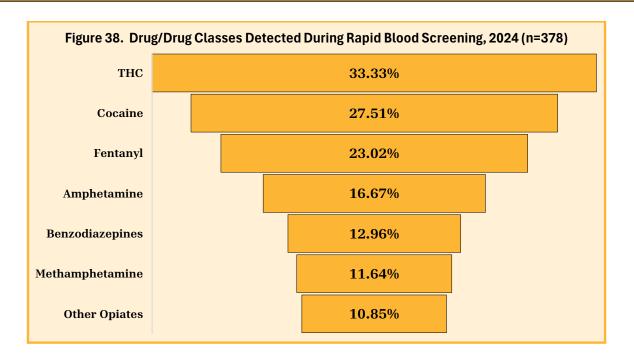
Rapid screening provides preliminary toxicology results that allow for timelier data for law enforcement, harm reduction efforts, and public health stakeholders. Death certificates are signed as pending until laboratory-based confirmatory toxicology testing with interpretation by forensic toxicologist

Figure 36. Randox® Evidence

is completed. All opioid case data is closely monitored by in-house opioid specialists.

In 2024, a total of 378 rapid blood screens were performed. Eleven screens were not performed due to specimen quality/condition and/or insufficient sample size. In 9 cases, autopsies were not performed based on screen results and thorough review of the medical history (Figure 37). Figure 38 illustrates the percentages of each drug/drug class detected for all 378 screens performed in 2024.





Toxicology Results

2024 Drug Combinations				
Substance Combination	Cases			
Cocaine	25			
Fentanyl	13			
Methamphetamine	10			
Fentanyl, Cocaine	10			
Fentanyl, Xylazine, Methamphetamine	7			
Fentanyl, Cocaine, Ethanol	6			
Fentanyl, Xylazine	5			
Fentanyl, Methamphetamine	4			
Fentanyl, Xylazine, Cocaine	3			
Fentanyl, Ethanol	3			
Methadone	2			
Fentanyl, Xylazine, Ethanol	2			
Fentanyl, Xylazine, Cocaine, Ethanol	2			
Fentanyl, Methamphetamine, Xylazine	2			
Zolpidem, Ethanol	2			
Fentanyl, Cocaine, Xylazine	2			
Fentanyl, Acetyl-Fentanyl, Cocaine	2			
Cocaine, Ethanol	2			
Fentanyl, Heroin	2			
Fentanyl, Xylazine, Mitragynine, Ethanol	1			

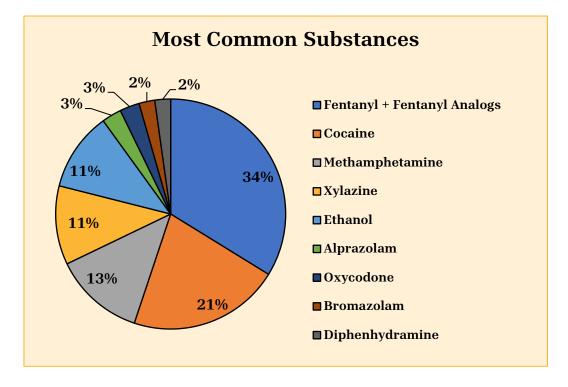
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Fentanyl, Bromazolam, Sertraline, Promethazine Cocaine, Opiates Fentanyl, Clonazepam, Ethanol, Amphetamine Diazepam, Ethanol Bromazolam, Hydrocodone, Hydromorphone, Alprazolam Ethanol, Alprazolam, Citalopram 1
Cocaine, Opiates Fentanyl, Clonazepam, Ethanol, Amphetamine Diazepam, Ethanol Bromazolam, Hydrocodone, Hydromorphone, Alprazolam Ethanol, Alprazolam, Citalopram 1
Fentanyl, Clonazepam, Ethanol, Amphetamine 1 Diazepam, Ethanol 1 Bromazolam, Hydrocodone, Hydromorphone, Alprazolam 1 Ethanol, Alprazolam, Citalopram 1
Diazepam, Ethanol 1 Bromazolam, Hydrocodone, Hydromorphone, Alprazolam 1 Ethanol, Alprazolam, Citalopram 1
Bromazolam, Hydrocodone, Hydromorphone, Alprazolam 1 Ethanol, Alprazolam, Citalopram 1
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critariyi, docume, Bromazolam, Aylazme
Fluoxetine, Oxycodone, Gabapentin, Clonazepam 1
Fentanyl, Cocaine, Diphenhydramine, Ethanol 1
Methamphetamine, Cocaine 1
Amitriptyline 1
morphine, lorazepam, haloperidol, citalopram/escitalopram 1
Fentanyl, Cocaine, Ethanol, Alprazolam, Diphenhydramine
Dxycodone, Diphenhydramine, Diazepam 1
Fentanyl, Cocaine, Ketamine
Rocuronium 1
Fentanyl, Cocaine, Methadone 1
Fentanyl, Methamphetamine, Xylazine, Cocaine
Fentanyl, Cocaine, Methamphetamine
Fentanyl, Morphine, Hydromorphone

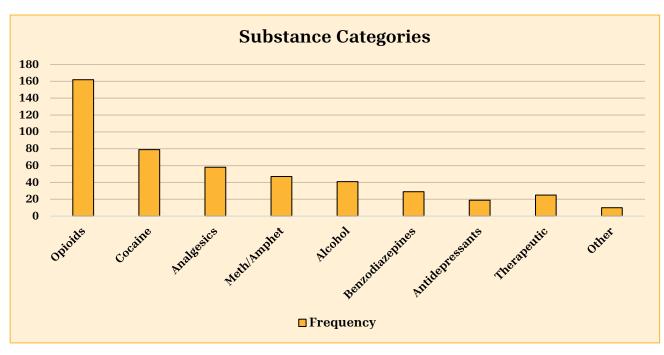
Fentanyl, Cocaine, Methamphetamine, Bromazolam, Ethanol	1
fentanyl, oxycodone, bupropion, duloxetine, mirtazapine	1
Fentanyl, Cocaine, Oxycodone	1
Fentanyl, Para-Fluorofentanyl	1
Cocaine, Benzodiazepines	1
Fentanyl, Para-Fluorofentanyl, Xylazine	1
Fentanyl, Cocaine, Xylazine, Ethanol	1
Fentanyl, Xylaine, Heroin, Ethanol	1
Fentanyl, Cocaine, Xylazine, Methamphetamine	1
Fentanyl, Xylazine, Alprazolam, Ethanol	1
Fentanyl, Cocaine, Xylazine, Mitragynine	1
Cyclobenzaprine, Dextro-Levo-Methmorphan, Clonazepam, Acetaminophen	1
Fentanyl, Diphenhydramine	1
Fentanyl, Xylazine, Cocaine, Methamphetamine, Buprenorphine, Gabapentin, Trazadone	1
Fentanyl, Diphenhydramine, Hydromorphone, Promethazine	1
Fentanyl, Xylazine, Loperamide	1
cocaine, cocaethylene, fentanyl, para-fluorofentanyl, Ethanol	1
Fentanyl, Xylazine, Mitragynine	1
Fentanyl, Ethanol, Methamphetamine	1
Fentanyl, Xylazine, Oxycodone	1
Venlafaxine	1
Ethanol, Cocaine	1
Amitriptyline, Alprazolam, Ethanol	1
ethanol, cocaine, Cocaethylene, methamphetamine	1
Acetaminophen, Hydrocodone, Oxycodone, Trazadone	1
Methamphetamine, Cocaine, Haloperidol, Aripiprazole	1
Fentanyl, Hydrocodone, Gabapentin	1
Morphine	1
Cocaine, Fentanyl	1
N-dimethylpentylone, xylazine, methamphetamine, fentanyl, Acetyl-Fentanyl	1
Fentanyl, Methamphetamine, Cocaine, Sertraline	1
N-Pyrrolidino protonitazene, Mitragynine, temazepam	1
Fentanyl, Methamphetamine, Diphenhydramine	1
Oxycodone, Oxymorphone	1
Fentanyl, Methamphetamine, Gabapentin	1
Oxycodone, Phentermine, Gabapentin, Olanzapine, Duloxetine, Promethazine, Clonazepam	1
Fentanyl, Methamphetamine, Hydroxyzine	1
Unknown Substances	1
Fentanyl, Methamphetamine, Morphine, Norbuprenorphine	1
cocaine, methamphetamine, doxepin, ethanol, olanzapine, hydroxyzine, citalopram/escitalopram	1
Fentanyl, Heroin, Mitragynine	1
Fentanyl, Heroin, Xylazine, Methamphetamine	1

Note:

- Aggregate toxicology data includes deaths with a manner of Accident, Suicide, Homicide, and Undetermined.
- Cases that had the same substance combination were consolidated in the above graphic.
- One case displays as 'Unknown Substances', the circumstances are due to hospital UDS which does not
 capture comprehensive toxicology results of all substances. Results were positive for Benzodiazepines and
 Opiates.

Average
Number of
Substances
Found in
Mixed-Drug
Cases







Charleston County Overdose Fatality Review

In November 2024, the Charleston County Coroner's Office initiated the Overdose Fatality Review in response to the frequency of drug-related fatalities due to the Opioid Crisis. The Overdose Fatality Review aims to identify system gaps and develop innovative, community-specific strategies for overdose prevention and intervention. This process involves confidential reviews of individual deaths conducted by a multidisciplinary team.

The case review process provides insights into a person's life history with a focus on various factors such as drug use, existing health conditions, significant health events, and social-emotional trauma, including adverse childhood experiences. It also considers interactions with law enforcement and the criminal justice system, SUD treatment history, and additional contextual factors specific to the Charleston area. The goal of this review is to gain a deeper understanding of the missed opportunities for prevention and intervention that could have potentially prevented an overdose death.

By conducting these reviews, jurisdictions identify patterns of need and opportunity within specific agencies and across various systems. By incorporating input from public health, medical, and behavioral health providers, first responders, and the community, the members of the OFR can develop program and policy recommendations. These recommendations aim to enhance coordination and collaboration among agencies and improve the availability of community

resources to prevent future overdose deaths.

Reviews Conducted

6

Initiatives Supported from trends found in Case Reviews

- •Expanding support resources such as peer support, SUD treatment options, and pre-release planning for individuals booked into Al Cannon
- Collaborative harm reduction initiatives targeting atrisk populations identified by cross-agency data sharing.
- •Increasing public awareness of the risks of illicit substance use, about substance use disorder, and to decrease stigma associated with substance use and medically assisted treatment.

Agencies in Attendance

- The Charleston Center
- · Charleston County Sheriff's Office
- WakeUp Carolina
- Oxford House
- Favor Lowcountry
- MUSC ED
- Roper St Francis ED
- Mount Pleasant Police Department
- Narcotics Officers

- North Charleston Police Department
- One80 Place
- Emergency Medical Services
- The Solicitor's Office
- Drug Court
- HIDTA
- City of Charleston Police Department
- The CDC Foundation
- Al Cannon Detention Center

Highlights

Novel Substances				
Xylazine (39 Deaths)	•Only approved for veterinary use. •Used for sedation, anesthesia, muscle relaxation, and analgesia			
Buprenorphine/Methadone (9 Deaths)	Both substances are used for medically assisted treatment for substance use disorder.			
Bromazolam (8 Deaths)	 Designer benzodiazepine that has similar effects to alprazolam and diazepam Not FDA approved in the United States 			
Para-Fluorofentanyl (5 Deaths)	 Analogue of fentanyl that causes similar effects to fentanyl. Reportedly more toxic than fentanyl Not Approved for medical use in the United States 			
Acetyl-Fentanyl (3 Deaths)	•Analogue of fentanyl that causes similar effects to fentanyl. •Not approved for medical use in the United States			
N-Pyrrolidino protonitazene (2 Deaths)	•Synthetic Opioid 25 times greater in potency than fentanyl.			

Most Frequent Substance Combinations					
Cocaine	25				
Fentanyl	13				
Methamphetamine	10				
Fentanyl, Cocaine	10				
Fentanyl, Xylazine, Methamphetamine	7				
Fentanyl, Cocaine, Ethanol	6				
Fentanyl, Xylazine	5				