

May 2026

2024 Drug Overdose Hospital Discharges in Tennessee

Legislative Brief

Table of Contents

Contents

Table of Contents	2
Key Takeaways	4
Key Trends in Nonfatal Drug Overdoses in 2024	4
Fatal and Nonfatal Drug Overdose Trends.....	5
Drug Overdose Deaths among TN Residents, 2019-2024.....	5
Table: Drug Overdose Deaths among TN Residents, 2019-2024.....	5
Map: 2024 All Drug Overdose Deaths by County of Residence	6
Nonfatal Drug Overdose Hospital Discharges and Deaths.....	7
Age-Adjusted Rates for All Drug Overdose Hospital Discharges and Deaths in TN, 2023-2024.....	7
Table: Age-Adjusted Rates for All Drug Overdose Hospital Discharges and Deaths in TN, 2023-2024	7
Nonfatal Drug Overdose Hospital Discharges	8
Age-Adjusted Rates for Opioid, Heroin, and Fentanyl Overdose Visits and Inpatient Stays in TN, 2023-2024	8
Table: Age-Adjusted Rates of Opioid, Heroin, and Fentanyl Nonfatal Overdoses by Visit Type and Year*	8
Age-Adjusted Rates for Benzodiazepine and Stimulant Overdose Outpatient Visits and Inpatient Stays in TN, 2023-2024.....	9
Table: Age-Adjusted Rates of Benzodiazepine and Stimulant Overdoses by Visit Type and Year*	9
Map of Age-Adjusted Rates for Outpatient Visits related to All Drug Overdoses in TN by County of Residence, 2024	10
Age-Adjusted Rates for All Drug, Opioid, Stimulant, and Benzodiazepine Overdose Outpatient Visits and Inpatient Stays by Race among TN Residents, 2024	11
Table: Age-Adjusted Rates of Outpatient Visits and Inpatient Stays among TN Residents by Race*.....	11
Age-Adjusted Rates for All Drug, Opioid, Stimulant, and Benzodiazepine Overdose Outpatient Visits and Inpatient Stays by Age among TN Residents, 2024	12
Table: Age-Adjusted Rate of Outpatient Visits and Inpatient Stays among TN Residents by Age.....	13
Drug Overdose Hospital Discharges by Primary Payer Type in TN, 2024.....	14

Table: Percent of Hospital Discharges by Primary Payer Type	14
Annual Cost by Drug and Discharge Type, 2024	15
Table: Cost of Outpatient Visits and Inpatient Stays by Drug Type among TN Residents	15
Conclusion.....	16
Drug Overdose Data and Prevention Resources in Tennessee	17
Data Resources	17
Resources for Treatment and Prevention	17



Dept. of Health, Authorization # N94WG0-1, electronic only, April 29, 2026. This public document was promulgated at a cost of \$Electronic per copy.

Key Takeaways

The number and age-adjusted rate of fatal and nonfatal overdoses decreased substantially between 2023 and 2024. The year 2024 marks the second consecutive annual decline in drug overdose deaths since Tennessee began monitoring overdose data in 2013. This decrease may be attributed to the widespread naloxone distribution, changes in the drug supply, linkage to care, and education efforts. Continued investment in overdose surveillance and prevention is needed to maintain the downward trend and save lives.

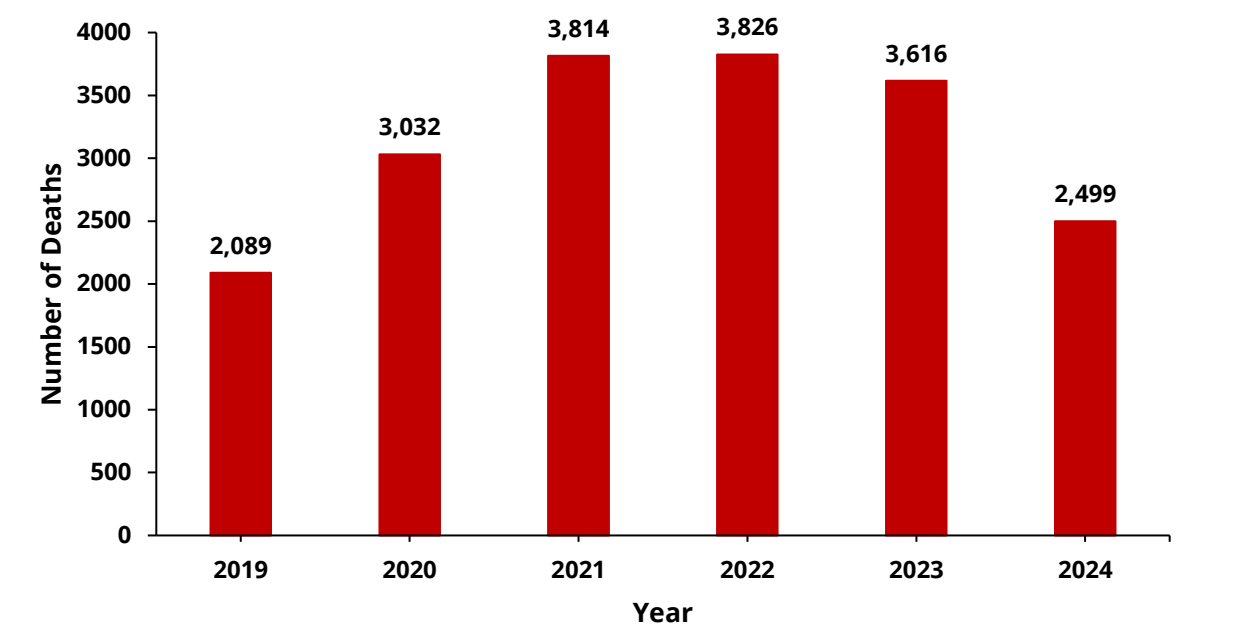
Key Trends in Nonfatal Drug Overdoses in 2024

- **Between 2023 and 2024 drug overdose deaths decreased 31%.**
 - In 2024, 2,499 Tennessee residents died of a drug overdose.
- **Nonfatal drug overdose outpatient visits decreased by 21% between 2023 and 2024.**
 - The rate of drug overdose outpatient visits decreased for all classes of drugs. The highest reduction was observed for heroin overdoses, where a 55.7% rate decrease was observed.
 - The rate of outpatient visits for nonfatal overdoses decreased in all demographic groups.
- **Nonfatal drug overdose inpatient stays decreased 10.5% between 2023 and 2024.**
 - The rate of drug overdose inpatient stays decreased for all drug classes. Inpatient stays involving cocaine overdoses experienced the largest rate decrease, 22.0%.
 - The rate of inpatient stays for nonfatal overdoses decreased for all demographic groups.
- **Most counties (79) experienced a decrease in the number of drug overdose outpatient visits between 2023 and 2024. Sixteen counties did not experience a decrease.**
 - Lawrence County experienced the largest percent decrease (51.3%) in the rate of drug overdoses treated as outpatient visits, while the largest percent increase in the rate of drug overdoses treated as outpatient visits was seen in Perry County (104.1%).
- **The cost of nonfatal overdoses is not evenly distributed across different types of drugs.**
 - Nonfatal overdoses involving stimulants incurred the highest inpatient costs while nonfatal overdoses involving benzodiazepines incurred the highest outpatient costs. In 2024, outpatient visits cost an estimated \$14,304,277 and inpatient stays cost an estimated \$40,150,236.

Fatal and Nonfatal Drug Overdose Trends

In 2024, **2,499 drug overdose deaths** occurred among Tennesseans. This is a **31% decrease** from the previous year.

Drug Overdose Deaths among TN Residents, 2019-2024



Graph Note:
 Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Tennessee Death Statistical File, 2019-2024, Division of Vital Records and Statistics.

Table: Drug Overdose Deaths among TN Residents, 2019-2024

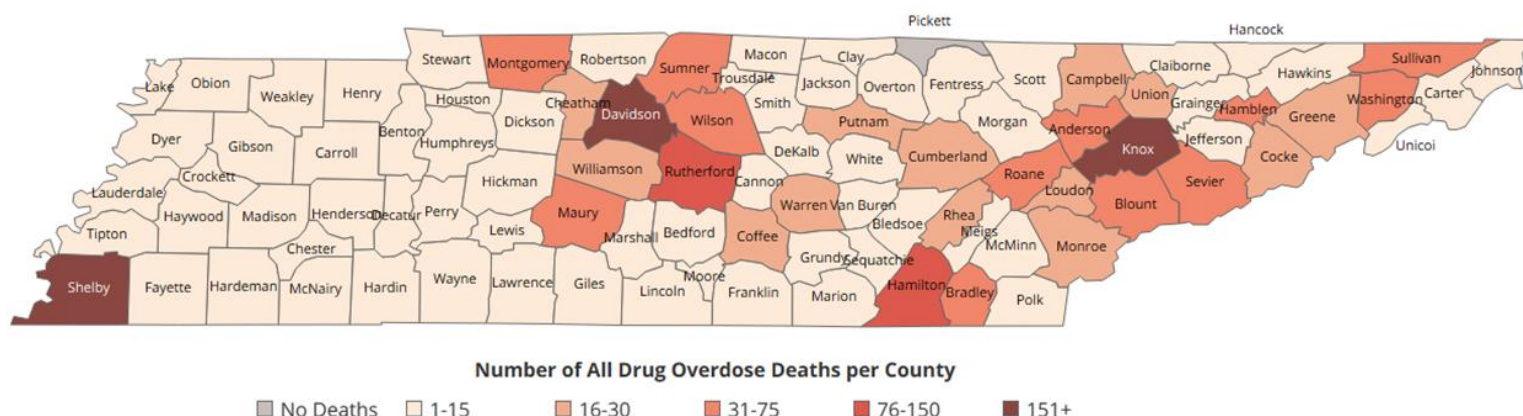
Year	Drug Overdose Deaths
2019	2,089
2020	3,032
2021	3,814
2022	3,826
2023	3,616
2024	2,499

When looking at manner of death, most overdose deaths (94.8%) were unintentional. A small percentage were intentional (3.8%), and in 1.4% of cases, the manner of death could not be determined. Fewer than 1% of overdose deaths were classified as homicide.

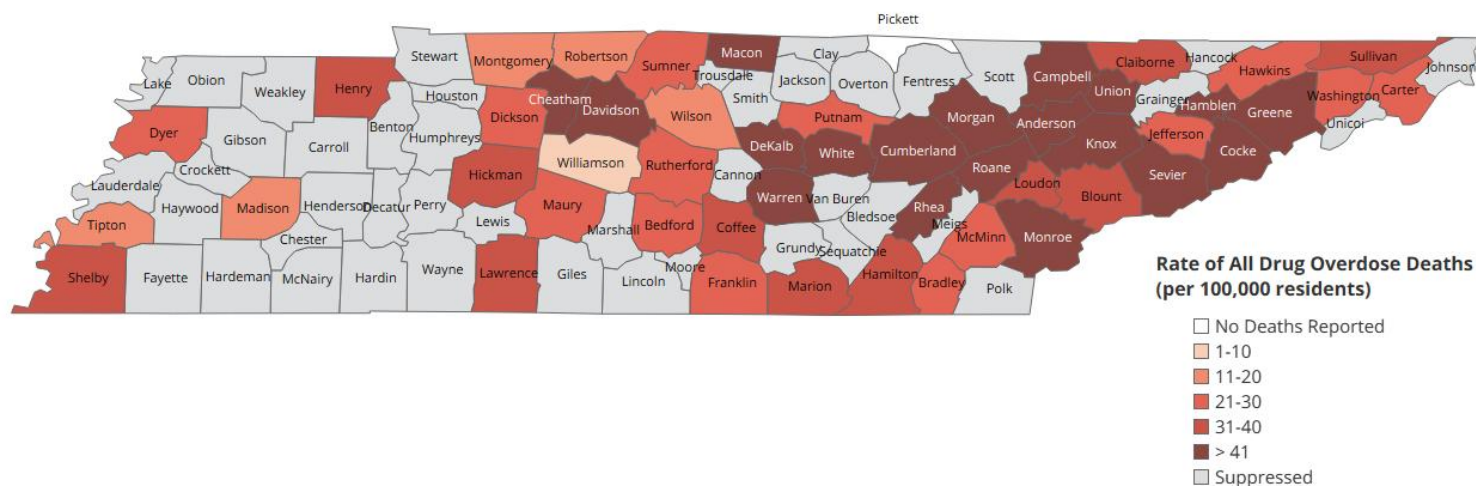
Map: 2024 All Drug Overdose Deaths by County of Residence

In 2024, every county in Tennessee experienced a drug overdose death except for Pickett County. The maps below show the counts and age-adjusted rates by county.

Count of All Drug Overdose Deaths by County of Residence, 2024



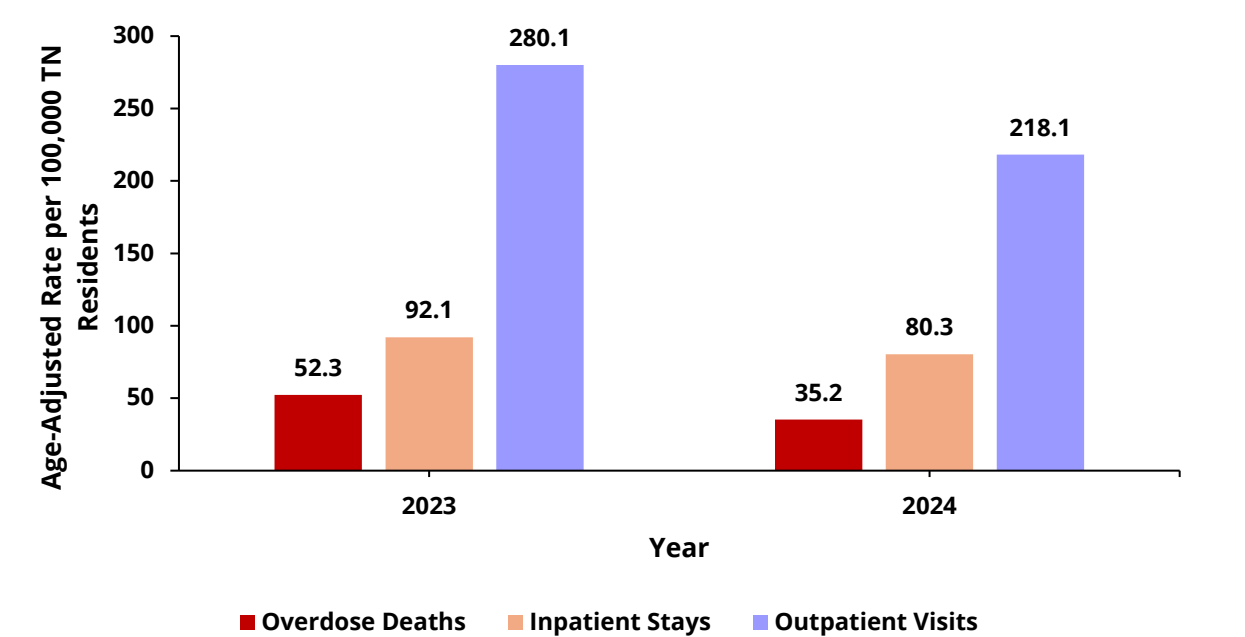
Age-Adjusted Rates of All Drug Overdose Deaths by County of Residence, 2024



When the count is under 10, the rate becomes unstable and is suppressed. The grey coloring above shows the counties where the rate is suppressed.

Nonfatal Drug Overdose Hospital Discharges and Deaths

Age-Adjusted Rates for All Drug Overdose Hospital Discharges and Deaths in TN, 2023-2024



Graph Note:
 Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Tennessee Death Statistical File, 2020-2024, Division of Vital Records and Statistics and Hospital Discharge Data System Data. Population data is from the Population Health Assessment Division.

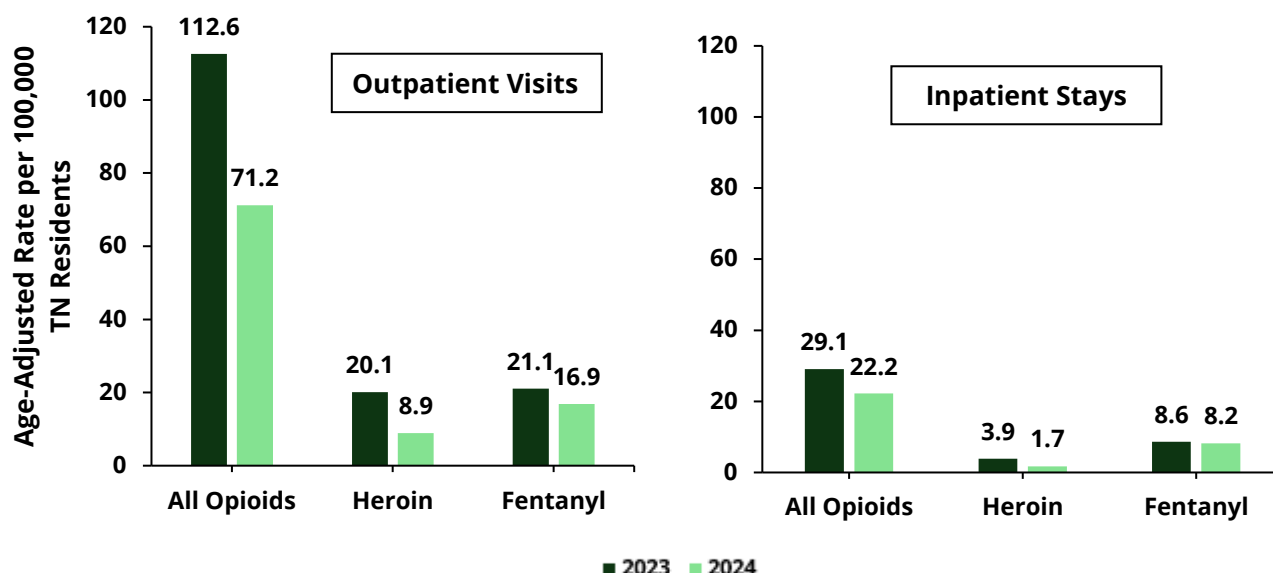
Table: Age-Adjusted Rates for All Drug Overdose Hospital Discharges and Deaths in TN, 2023-2024

Type	2023	2024
Overdose Deaths	52.3	35.2
Inpatient Stays	92.1	80.3
Outpatient Visits	280.1	218.1

Rates of fatal and nonfatal overdoses decreased between 2023 and 2024. In 2024, there were 21,107 nonfatal drug overdose hospital discharges among Tennessee residents. The total is comprised of 6,034 inpatient stays (28.6%) and 15,073 outpatient visits (71.4%). For outpatient visits, the age-adjusted rates decreased from 280.1 in 2023 to 218.1 in 2024. For inpatient stays, the age-adjusted rates decreased from 92.1 in 2023 to 80.3 in 2024.

Nonfatal Drug Overdose Hospital Discharges

Age-Adjusted Rates for Opioid, Heroin, and Fentanyl Overdose Outpatient Visits and Inpatient Stays in TN, 2023-2024



Graph Note:

Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026) Limited to TN residents. Data Source: Hospital Discharge Data System. Population data is from the Population Health Assessment Division.

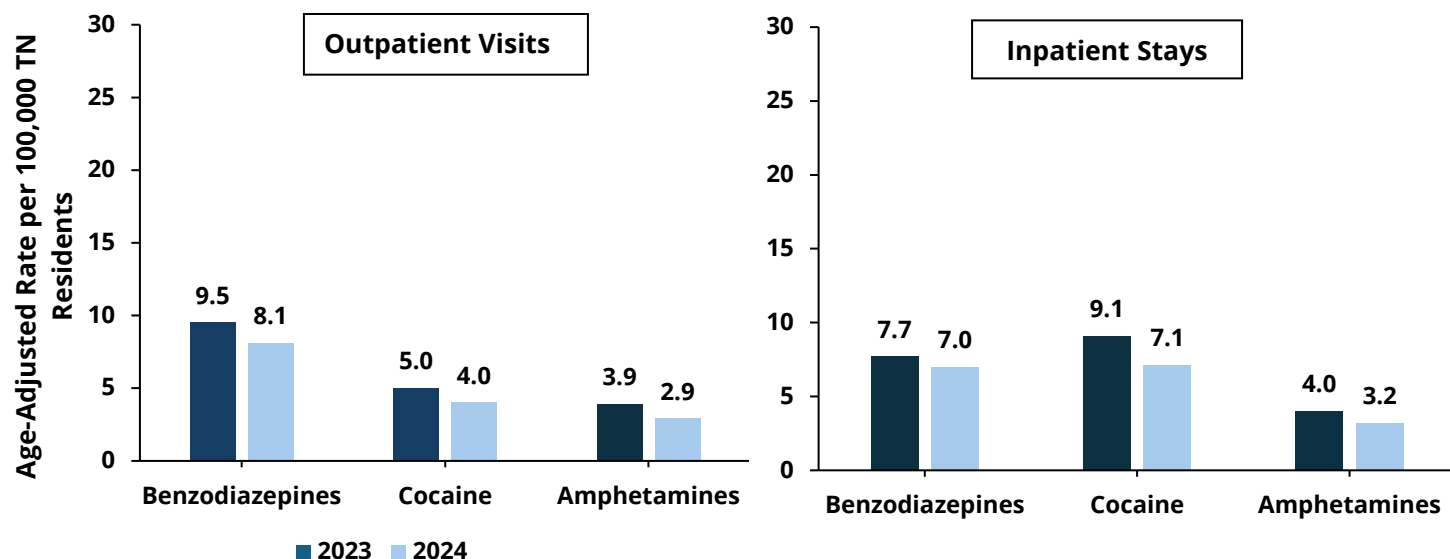
Table: Age-Adjusted Rates of Opioid, Heroin, and Fentanyl Nonfatal Overdoses by Visit Type and Year*

Year	All Opioid Outpatient Visits	Heroin Outpatient Visits	Fentanyl Outpatient Visits	All Opioid Inpatient Stays	Heroin Inpatient Stays	Fentanyl Inpatient Stays
2023	112.6	20.1	21.1	29.1	3.9	8.6
2024	71.2	8.9	16.9	22.2	1.7	8.2

*Drug categories are not mutually exclusive

In 2024, there were 6,676 hospital overdose discharges for all opioids (4,975 outpatient visits and 1,701 inpatient stays); 731 for heroin (612 outpatient visits and 119 inpatient stays); 1,731 for fentanyl (1,153 outpatient visits and 578 inpatient stays). From 2023 to 2024, rates of outpatient visits and inpatient stays decreased for all opioids. Outpatient visit rates decreased from 112.6 to 71.2 for all opioids; from 20.1 to 8.9 for heroin; and from 21.1 to 16.9 for fentanyl. Rates for inpatient stays decreased from 29.1 to 22.2 for all opioids; from 3.9 to 1.7 for heroin; and from 8.6 to 8.2 for fentanyl.

Age-Adjusted Rates for Benzodiazepine and Stimulant Overdose Outpatient Visits and Inpatient Stays in TN, 2023-2024



Graph Note:

Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Hospital Discharge Data System. Population data is from the Population Health Assessment Division.

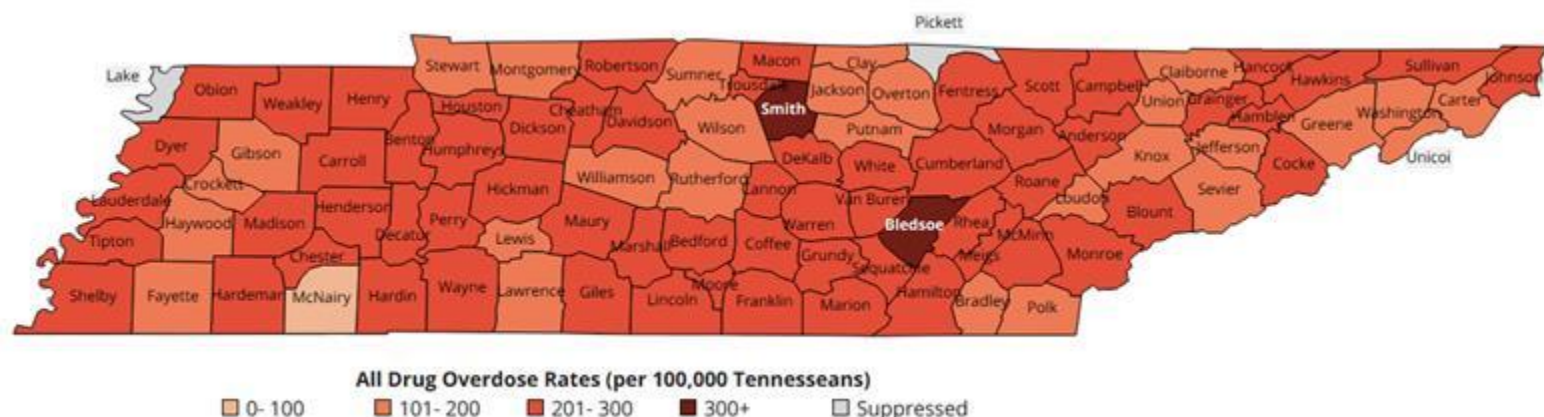
Table: Age-Adjusted Rates of Benzodiazepine and Stimulant Overdoses by Visit Type and Year*

Year	Benzodiazepine Outpatient Visits	Cocaine Outpatient Visits	Amphetamine Outpatient Visits	Benzodiazepine Inpatient Stays	Cocaine Inpatient Stays	Amphetamine Inpatient Stays
2023	9.5	5.0	3.9	7.7	9.1	4.0
2024	8.1	4.0	2.9	7.0	7.1	3.2

**Drug class categories are not mutually exclusive*

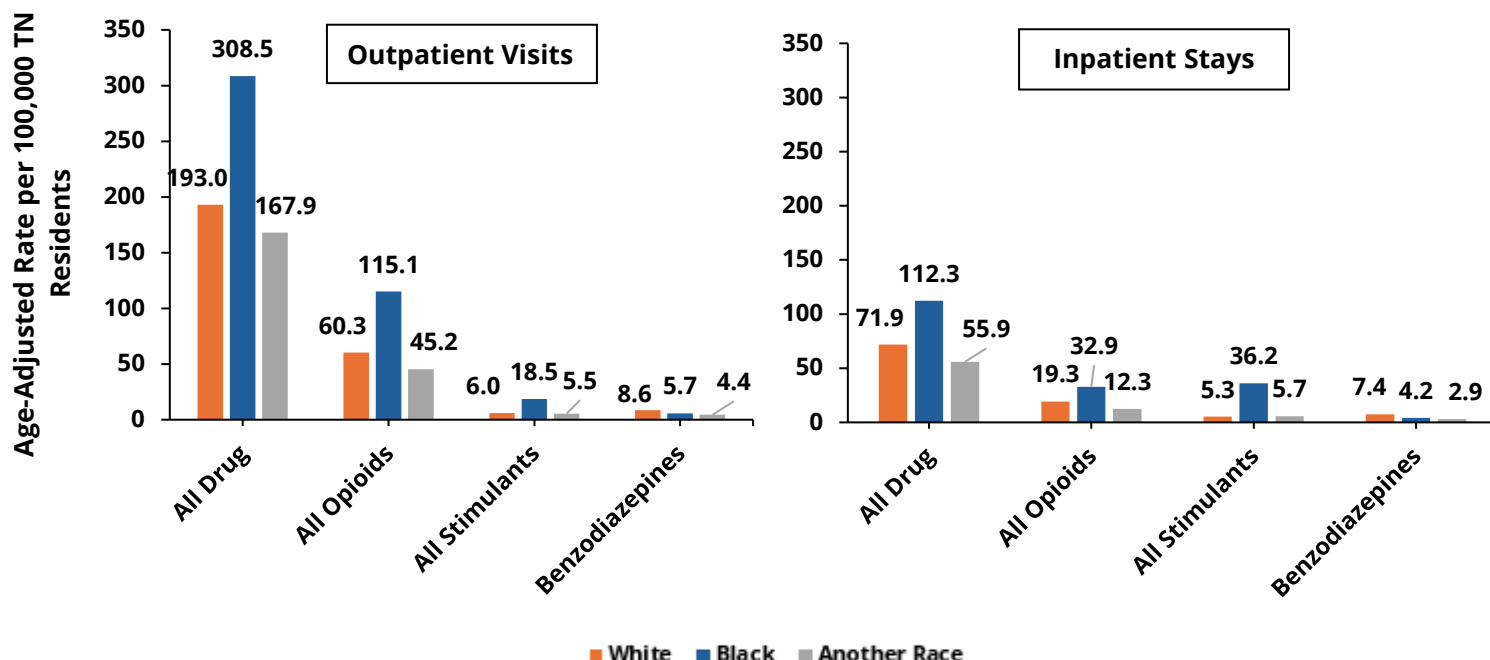
In 2024, there were 1,144 hospital overdose discharges for benzodiazepine overdoses (593 outpatient visits and 551 inpatient stays). There were 823 cocaine overdoses (539 outpatient visits and 284 inpatient stays) and 421 amphetamine overdoses (194 outpatient visits and 227 inpatient stays). The age-adjusted rates decreased for benzodiazepine, cocaine, and amphetamine outpatient and inpatient overdoses between 2023 and 2024.

Map of Age-Adjusted Rates for Outpatient Visits related to All Drug Overdoses in TN by County of Residence, 2024



The above map shows age-adjusted rates per 100,000 residents for outpatient visits related to all drug overdoses in 2024 by Tennessee county of residence. The rates ranged from 100.0 in McNairy County to 365.2 in Bledsoe County for all drug overdose outpatient visits. Bledsoe and Smith counties had the highest rates for all drug overdose outpatient visits in 2024 (300 or higher).

Age-Adjusted Rates for All Drug, Opioid, Stimulant, and Benzodiazepine Overdose Outpatient Visits and Inpatient Stays by Race among TN Residents, 2024



Graph Note:

Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Hospital Discharge Data System. Population data is from the Population Health Assessment Division.

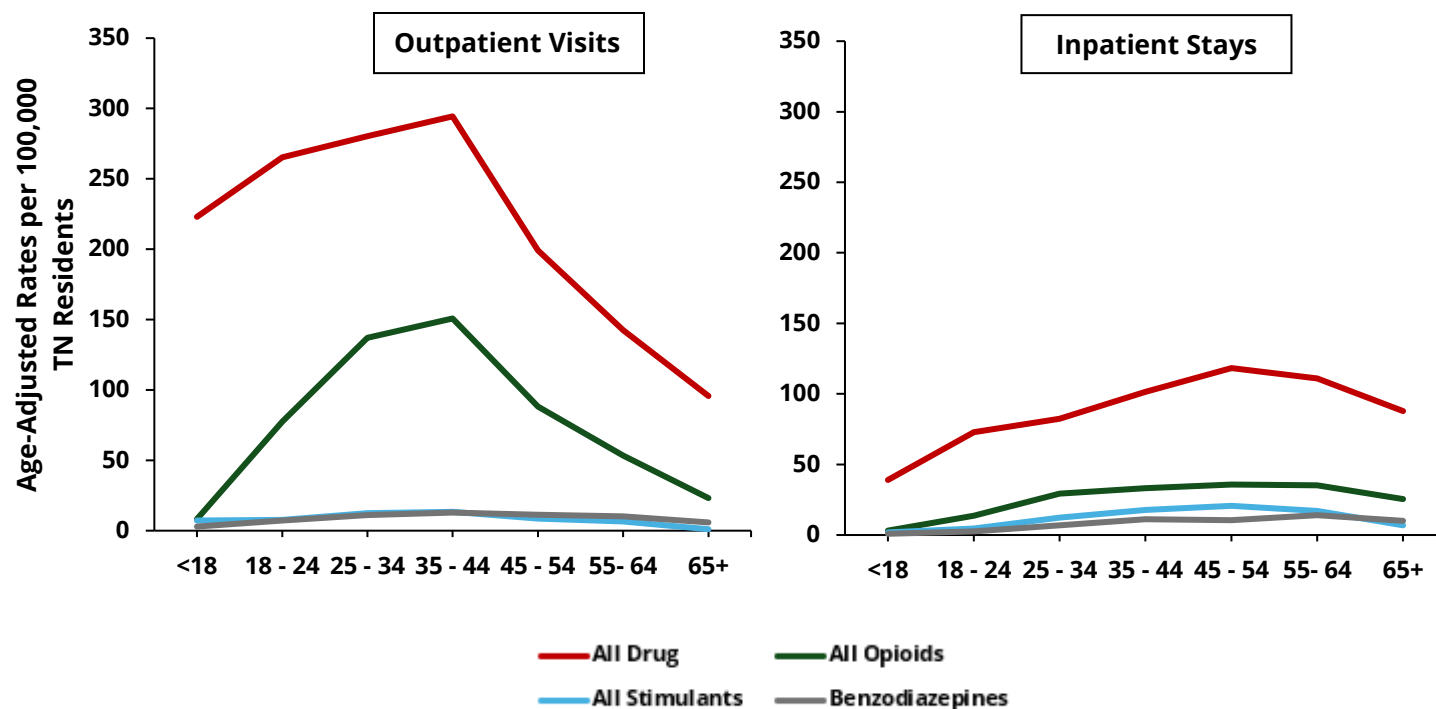
Table: Age-Adjusted Rates of Outpatient Visits and Inpatient Stays among TN Residents by Race*

Visit Category	Another Race	Black	White
All Drug Outpatient Visits	167.9	308.5	193.0
All Opioid Outpatient Visits	45.2	115.1	60.3
All Stimulant Outpatient Visits	5.5	18.5	6.0
Benzodiazepine Outpatient Visits	4.4	5.7	8.6
All Drug Inpatient Stays	55.9	112.3	71.9
All Opioid Inpatient Stays	12.3	32.9	19.3
All Stimulant Inpatient Stays	5.7	36.2	19.3
Benzodiazepine Inpatient Stays	2.9	4.2	7.4

*The 'Another Race' category includes all races other than Black and White. Those races were combined due to small numbers.

In 2024, White Tennesseans accounted for 69.1% (14,595) of all drug overdose hospital discharges, Black Tennesseans made up 23.6% (5,001), and other or unknown races accounted for the remaining 7.8% (1,658) discharges. Outpatient visits were the most common type of discharge for both White (10,294) and Black (3,649) Tennesseans.

Age-Adjusted Rates for All Drug, Opioid, Stimulant, and Benzodiazepine Overdose Outpatient Visits and Inpatient Stays by Age among TN Residents, 2024



Graph Note:

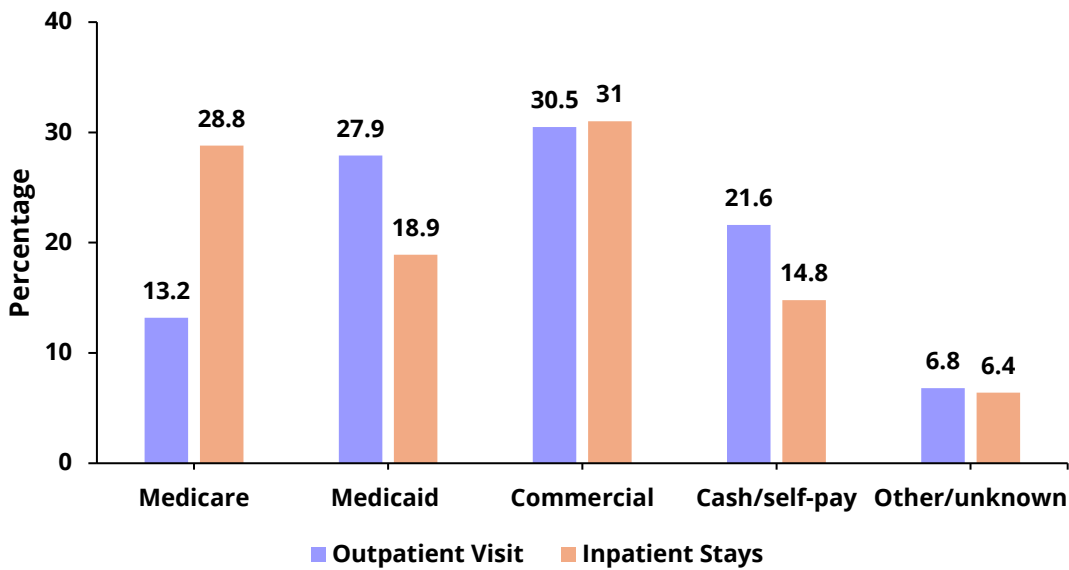
Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Hospital Discharge Data System. Population data is from the Population Health Assessment Division.

Tennessee residents aged 35-44 years had the highest rates of outpatient visits for all drugs (294.4), opioids (150.8), stimulants (13.4), and benzodiazepine overdoses (12.9). For inpatient stays, overdose rates were highest among those aged 45-54 years for all drug (118.3), opioids (35.8), stimulants (20.7), and age 55-64 for benzodiazepines (14.1). The table on the next page shows age adjusted rates in table form.

Table: Age-Adjusted Rate of Outpatient Visits and Inpatient Stays among TN Residents by Age

Visit Category	<18	18 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+
All Drug Outpatient Visits	223.0	265.3	280.3	294.4	199.1	142.4	95.7
All Opioid Outpatient Visits	8.3	77.4	137.0	150.8	88.2	53.3	23.2
All Stimulant Outpatient Visits	7.3	7.6	12.4	13.4	8.5	6.6	1.0
Benzodiazepine Outpatient Visits	2.9	7.1	11.2	12.9	11.4	10.2	5.9
All Drug Inpatient Stays	39.0	73.0	82.3	101.5	118.3	111.0	88.0
All Opioid Inpatient Stays	3.1	13.7	29.3	33.1	35.8	35.3	25.4
All Stimulant Inpatient Stays	1.8	4.6	12.3	17.7	20.7	17.0	7.0
Benzodiazepine Inpatient Stays	0.9	2.6	7.0	11.2	10.4	14.1	9.9

Drug Overdose Hospital Discharges by Primary Payer Type in TN, 2024



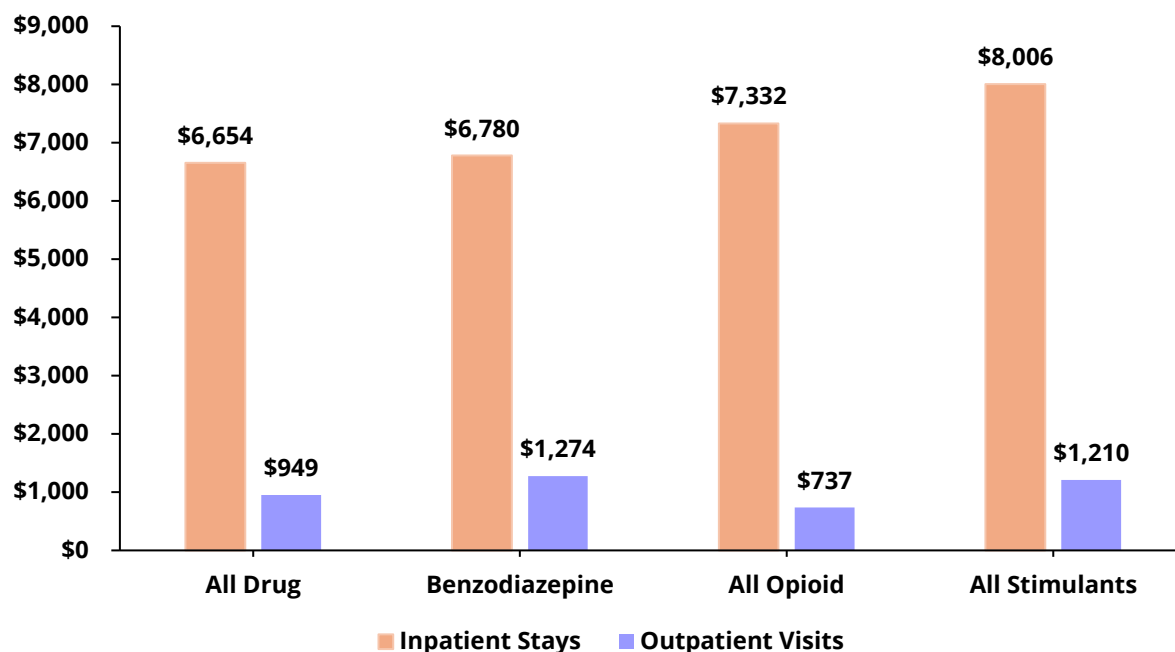
Graph Note:
Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Hospital Discharge Data System.

Table: Percent of Hospital Discharges by Primary Payer Type

Visit Type	Medicare	Medicaid	Commercial	Cash/self-pay	Other/unknown
Outpatient Visits	13.2	27.9	30.5	21.6	6.8
Inpatient Stays	28.8	18.9	31.0	14.8	6.4

In 2024, among all drug overdose outpatient visits, Commercial (30.5%), Medicaid (including TennCare) (27.9%), and Cash/self-pay (21.6%) were the most common primary payers billed for all drug overdose visits, followed by Medicare (13.2%). For inpatient stays related to all drug overdoses, the most common primary payer was Commercial (31.0%), followed by Medicare (28.8%) and Medicaid (18.9%).

Annual Cost by Drug and Discharge Type, 2024



Graph Note:

Analysis by the Office of Informatics and Analytics, TDH (last updated March 20, 2026). Limited to TN residents. Data Source: Hospital Discharge Data System.

Table: Cost of Outpatient Visits and Inpatient Stays by Drug Type among TN Residents

Drug Category	Inpatient Stays	Outpatient Visits
All Drug	\$6,654	\$949
Benzodiazepine	\$6,780	\$1,274
All Opioid	\$7,332	\$737
All Stimulants	\$8,006	\$1,210

The above graph presents the median cost of an overdose by drugs involved in the overdose. These categories are not mutually exclusive, as a patient may overdose simultaneously on two or more of the substances presented above, and would be included in both estimates. Nonfatal stimulant overdoses were the most expensive for inpatients (\$8,006, IQR: \$5,032.38-\$13,869.41). Benzodiazepine overdoses were the most expensive for outpatients (\$1,274, IQR: \$833.44-\$1,979.34).

Conclusion

The number and age-adjusted rate of fatal and nonfatal overdoses decreased between 2023 and 2024. This year marks the second consecutive annual decline in drug overdose deaths since Tennessee began monitoring overdose data in 2013. This decrease may be attributed to the widespread naloxone distribution, changes in the drug supply, linkage to care, and education efforts. Continued investment in overdose surveillance and prevention is needed to maintain the downward trend and save lives.

Tennessee experienced a reduction in nonfatal overdoses related to all types of drugs from 2023 to 2024. Opioids are still involved in the majority of nonfatal overdoses. Racial disparities remain with Black Tennesseans experiencing higher rates of overdose compared to White Tennesseans. Primary payer types remain mixed. There is a need to further evaluate how insurance status may be a barrier or facilitator to starting treatment after an overdose event.

In 2024 outpatient visits cost an estimated \$14,304,277 and inpatient stays cost an estimated \$40,150,236. Continued overdose surveillance and prevention can reduce those costs and protect, promote, and improve the health and well-being of all people in Tennessee.

Drug Overdose Data and Prevention Resources in Tennessee

Data Resources

- The **Office of Informatics and Analytics (OIA)** offers a variety of reports on its Facts & Figures page on the TDH website, see <https://www.tn.gov/health/odsurveillance.html>
- OIA also hosts a public facing dashboard displaying fatal and nonfatal overdose data, prescribing trends, and social determinants of health data, see <https://www.tn.gov/health/odsurveillance.html>
- For any data related questions, please email: tdh.analytics@tn.gov
- TDH has curated a **TDH Health Data Portal** website. This platform allows you to search, explore, download, and share public health data, see <https://healthdata.tn.gov/>
- For data not available in this report or on the TDH website, please submit a request through the **TDH Data Request System** on the TDH Health Data Portal, see <https://healthdata.tn.gov/stories/s/puqi-g78j>

Resources for Treatment and Prevention

- The **Overdose Response Coordination Office (ORCO)** supports TDH's overdose prevention and response efforts, oversees grant-funded activities, and cultivates and expands partnerships to strengthen the state's public health response to the overdose crisis. ORCO oversees public health interventions across the continuum of care including provider education, community overdose prevention education, coordinating overdose monitoring and response, peer navigation to treatment and recover resources from local health departments and emergency departments. For more information on ORCO programs and efforts see, <https://www.tn.gov/health/orco.html>
- **For Peer Navigation:** The Tennessee Department of Health **RISE (Recovery, Information, Support, and Engagement) Navigators** help individuals connect to appropriate treatment and social services in Tennessee. Navigators are embedded in settings such as hospitals, correctional facilities, EMS agencies, and select local health departments across Tennessee. To find a RISE Navigator near you, see <https://www.tn.gov/health/orco.html>
- **Finding Treatment:** Find Help Now is a national platform where individuals can locate substance use disorder treatment options in their communities. See <https://findhelpnow.org/tn>.
- **Getting Treatment Referrals:** The Tennessee REDLINE is a 24/7/365 resource for substance use disorder treatment referrals. Anyone can call or text 800-889-9789 for confidential referrals.
- **Getting Mental Health Resources:** For 24/7 mental health, substance use, or emotional crisis support, individuals can contact the 988 Suicide and Crisis Lifeline by calling or texting

988, or by chatting at 988lifeline.org. Trained crisis counselors are available to help individuals in crisis or those concerned about a loved one.

- **Overdose Prevention Training:** For overdose prevention training, tools, and resources, the **Regional Overdose Prevention Specialists (ROPS)** are located throughout the state. They can help to answer questions on overdose prevention and tools such as naloxone and testing strips. To learn more about ROPS work or to contact your local ROPS, see <https://www.tn.gov/behavioral-health/substance-abuse-services/prevention/rops.html>.
- **Using Naloxone:** Naloxone, commonly known as Narcan, is a lifesaving medication used to reverse the effects of opioids. TDMHSAS has developed resources about overdose and naloxone for both individuals and agencies: <https://www.tn.gov/behavioral-health/substance-abuse-services/prevention/naloxone-training-information.html>. Naloxone may also be available at your local health department, see <https://www.tn.gov/health/health-program-areas/localdepartments.html>
- **Raising Prevention Awareness in Your Community:** In counties and communities across Tennessee, substance use prevention coalitions are working to reduce use or misuse of harmful and potentially lethal substances, such as prescription drugs, alcohol, and tobacco. These local efforts, funded by the State of Tennessee since 2008, help to spread the word about the dangers and consequences of substance use. To connect with a local coalition, see <https://www.tn.gov/behavioral-health/substance-abuse-services/prevention/anti-drug-coalition.html>.
- **Syringe Services Programs (SSPs):** SSPs offer a range of resources to support people at all stages of substance use, including substance use education, overdose prevention support, and connections to health care. Many staff have lived experience and understand what people are going through, creating a nonjudgmental space to get support. Visit tinyurl.com/TNSSPs to learn more and to find all active locations.