

# Drug Overdose Surveillance Report Lake County, Ohio: April 2022

The following report outlines emergency department (ED) and urgent care (UC) drug overdose events by Lake County residents during the month of March. During this timeframe, a total of 44 recorded drug overdose ED/UC events met the inclusion criteria listed below, accounting for 0.65% of all April ED/UC visits among Lake County residents. This represents an increase from the previous month's 31 drug overdose ED/UC visits. No fatalities were reported among those reporting to ED/UCs during the month of April.

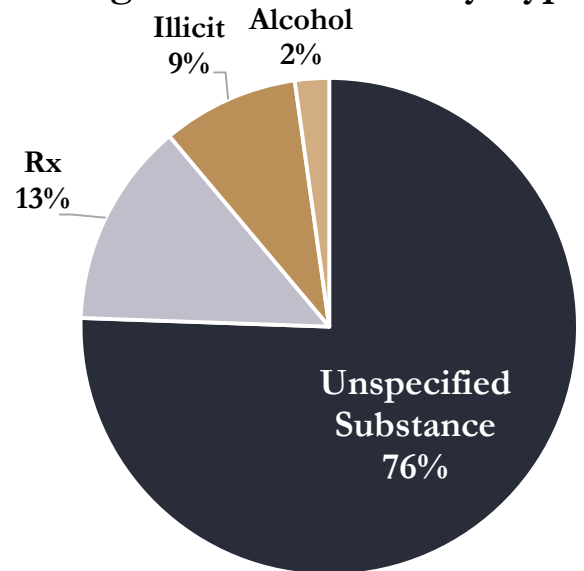
In March, Lake County drug overdose ED/UC admissions occurred among individuals ranging from 1 to 89 years of age. Six events involved prescription (Rx) medication, four involved illicit drugs, one involved alcohol, and thirty-four involved an unspecified substance (Figure 1). Moreover, ten ED/UC visits resulted in routine discharge, one was transferred to another hospital or other location, four left against medical advice, and thirty lacked reported discharge information.

**March**  
**31**  
**Overdose**  
**Visits**

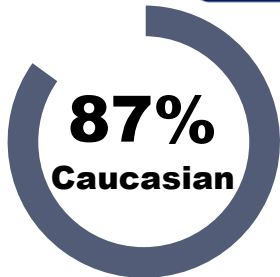
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**April**  
**45**  
**Overdose**  
**Visits**

Figure 1. Overdoses by Type



**Ages:**  
**1 to 89**  
**Average:**  
**36 Years**



## Inclusion Criteria:

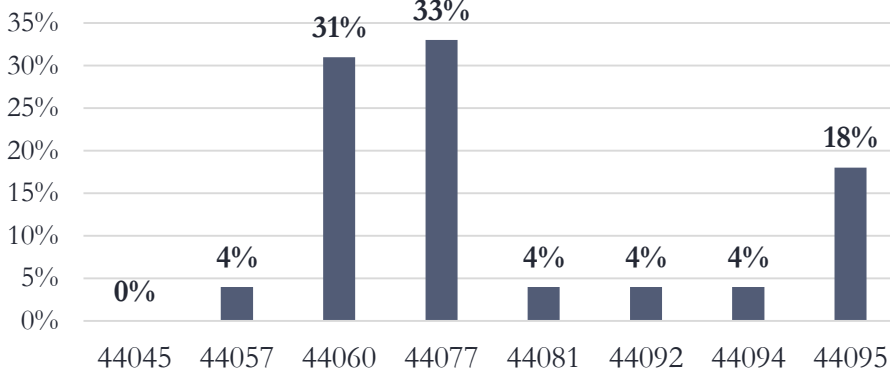
The data presented in this report was retrieved from Ohio's EpiCenter Health Monitoring System, as identified by the "Ohio Opioid-Related: Suspected Drug Overdose" classifier. Data prior to August 2019 was identified using the "Traumatic Injury: Drugs" classifier. This report contains information about Lake County residents, regardless of ED/UC location, and drug-related cases include all ED/UC admits specifying overdose or poisoning. Admits without supporting information, or otherwise indicative of a suicide attempt, intentional overdose, or accidental insulin overdose were excluded from this analysis, as were cases presenting for detox or withdrawal symptoms. In most cases, the drug responsible for the overdose is not indicated. As such, the included figures are not limited to opioid-related events.



## Geographical Distribution

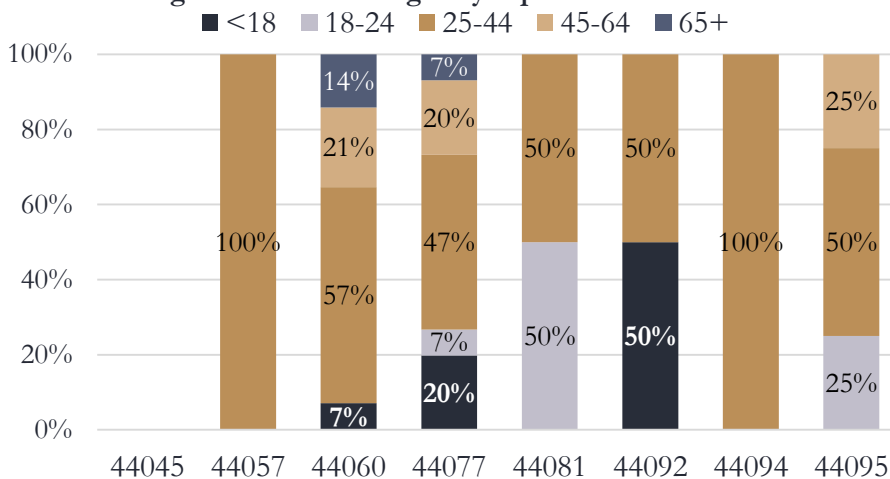
### In what areas were overdoses most prevalent?

Figure 2. Overdose Occurrences by Zip Code of Residence



In April, the greatest frequency of ED/UC overdose events occurred amongst those residing in zip code 44077 (Figure 2). ED/UC overdose events increased in 44060 (12%) and 44077 (7%), and decreased in 44045 (3%), 44057 (3%), 44081 (3%), 44092 (3%), 44094 (9%) and 44095 (1%).

Figure 3. Overdose Ages by Zip Code of Residence



ED/UC overdose events varied by age across each of the reported zip codes (Figure 3). Overdose event frequency was highest among those 25 to 44 years of age (56%), followed by 45 to 64 years of age (18%), under 18 years of age (11%), 18 to 24 years of age (9%), followed by those 65 years or older (7%).

### At which Lake County facilities did overdose events present?

Table 1. Overdose Reporting Facility

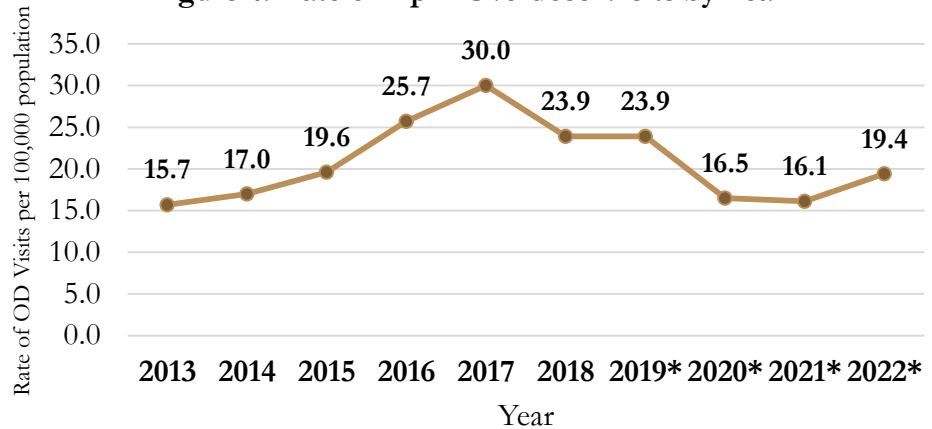
Facility	N	(%)
Madison Campus	0	0
TriPoint Medical Center	18	40
West Medical Center	14	31
Outside of County	13	28
<b>Total</b>	<b>45</b>	<b>100.0</b>

During the month of April, the highest proportion of Lake County residents who presented to ERs/UCs for suspected drug overdoses presented to TriPoint Medical Center (40%), West Medical Center (31%), Outside of the County (28%), followed by Madison Campus (0%). It should be noted that the ER at Madison Campus has been temporarily closed since 12/31/21.

How does this compare with past years?

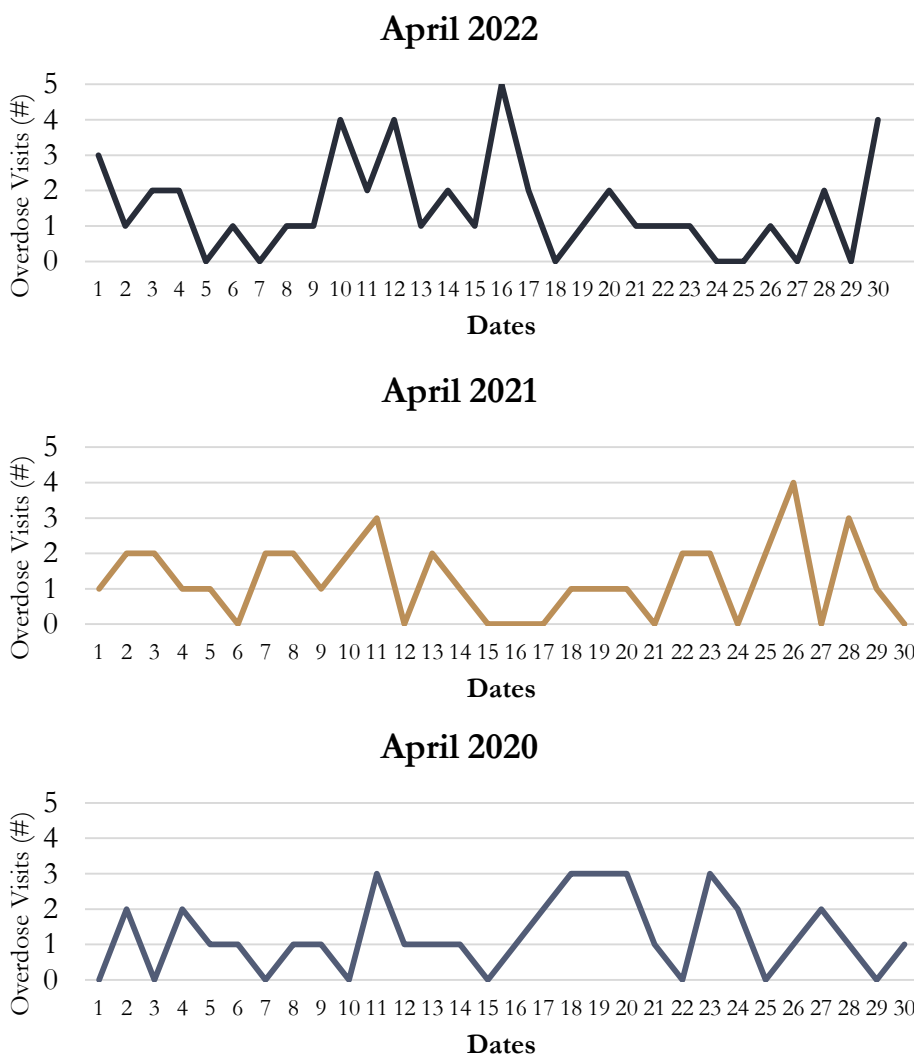
The April 2022 Lake County ED/UC overdose event rate per 100,000 population is the fifth lowest rate observed for April in the past 10 years (Figure 4). It is 23.6% higher than the lowest rate of 15.5 observed in April 2013, and 35.3% lower than the peak rate of 30.0 observed in April 2017.

Figure 4. Rate of April Overdose Visits by Year



\*Rates based on most current available annual population estimates, as obtained from data.census.gov; 2019-2022 rates are based on 2019 population estimates.

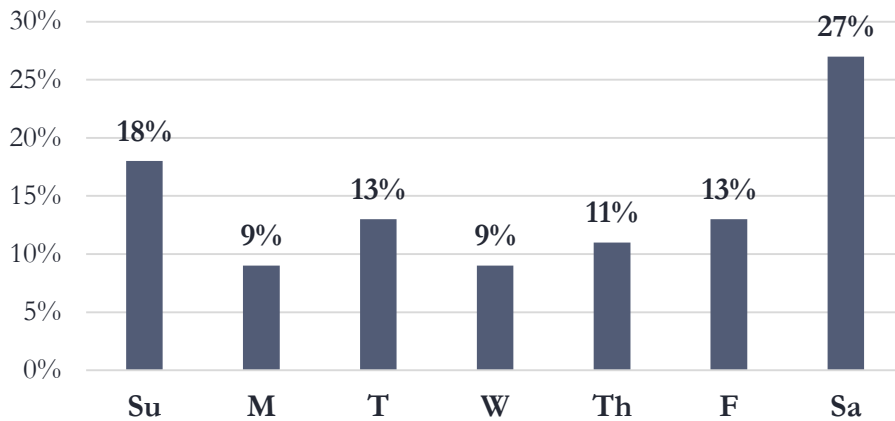
Figure 5. April Drug Overdose Daily Frequencies, 2020-2022



In order to provide for comparisons of daily ED/UC overdose event frequency, April events by day are illustrated for 2020, 2021, and 2022 (Figure 5). The daily maximum of five for April of 2022 is greater than the daily maximum of four in 2021 and 66.7% greater than the daily maximum of three reported in 2020. Moreover, mean daily ED/UC overdose event frequency for April of 2022 (1.5), is greater than the rate observed in April of 2021 (1.2), and greater than April of 2020 (1.2).

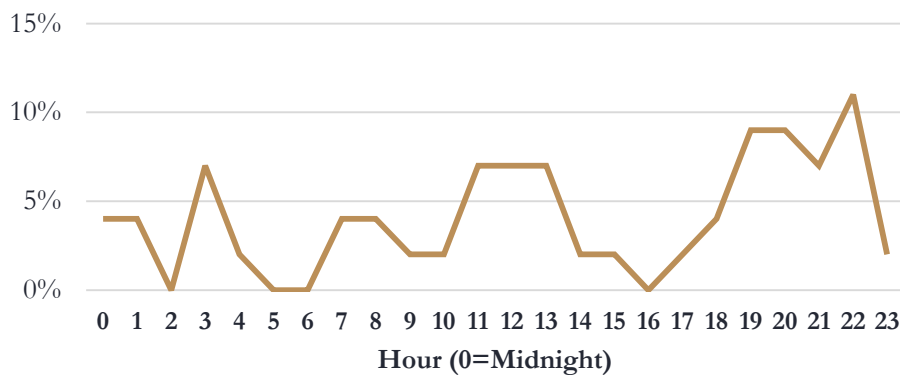
A total of seven days with no ED/UC overdose events were observed during April of 2022, as compared to nine days in April of 2021 and eight in April of 2020. April 2022 overdose events peaked on April 16, as compared to the 2021 peak, which occurred on April 26, and multiple 2020 peaks, which occurred on April 11, 18, 19, 20, 23.

Figure 6. Overdose Occurrences by Day of Week



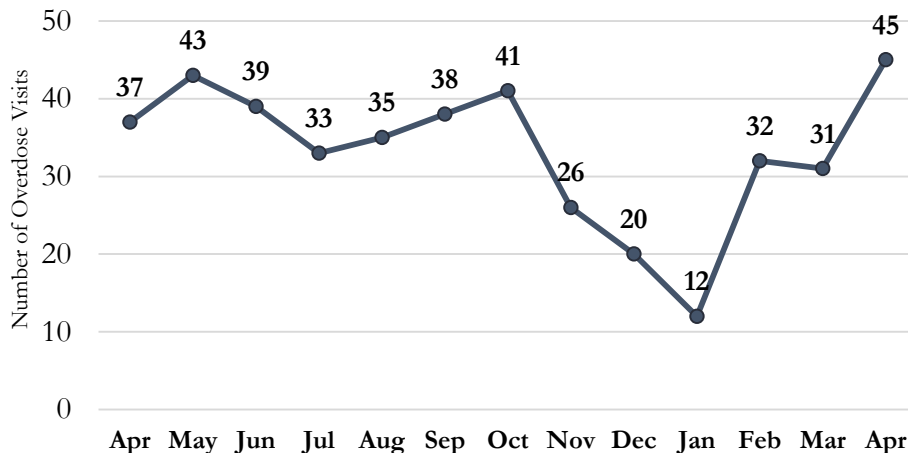
When organized by day of week, the frequency of ED/UC overdose events was highest on Saturday (27%; Figure 6). Sunday experienced the next highest frequency of overdose events (18%), followed by Tuesday and Friday (13%, respectively), and Thursday (11%). Monday and Wednesday had the lowest frequency of overdose events (9%, respectively).

Figure 7. Overdose Occurrences by Hour of Day



April ED/UC overdose events were most prominent around 10:00 pm (Figure 7). No overdose events presented to ED/UCs during the hours of 2:00 am, 5:00 am, 6:00 am, and 4:00 pm during the month of April.

Figure 8. Overdose Counts – Past 12 Months



When organized by month, ED/UC overdose events increased 16% from April to May, decreased 23% from May to July, increased 24% from July to October, decreased 68% from October to January, increased 167% from January to February, and decreased 3% February to March, and increased 45% from March to April (Figure 8). A total of 120 ED/UC visits for drug-related overdose events have been observed thus far in 2022, as compared to 147 in the same period for 2021.

# Lake County General Health District Resources



## Project DAWN Naloxone Clinics

Project DAWN clinics are available by appointment. Please call (440) 350-2844 to register.

Training and registration to receive a naloxone kit is always available on our website for residents of Lake County, as well as other counties in Ohio without an active Project DAWN Program.

For more information, please visit:

<https://www.lcghd.org/naloxone-distribution/>.

## Pharmaceutical Disposal Instructions

Before disposing of pharmaceuticals at one of the drop-off locations, be sure to remove or black-out identifiable information on the pharmacy label. Disposable items suitable for drop-off include:

- Unused or expired medications
- Prescriptions, non-prescription pills, syrups, and creams
- Pain and mood altering medications
- Pain relievers, over-the-counter cold and flu medication, vitamins, and pet medications
- **No needles or liquids**

## Pharmaceutical Drug Collection and Disposal Locations

Monday - Friday: 7:00 a.m. to 8:00 p.m.

Saturday: 9:00 a.m. to 5:00 p.m.

Sunday: 1:00 p.m. to 5:00 p.m.

*Note: No Sunday Hours at Lakeland*

### **Eastlake Police Department**

35150 Lakeshore Boulevard

Eastlake, OH 44095

### **Madison Township Police Department**

2065 Hubbard Road

Madison, OH 44057

### **Mentor Police Department**

8500 Civic Center Boulevard

Mentor, OH 44060

### **Mentor-on-the-Lake Police Department**

5860 Andrews Road

Mentor-on-the-Lake, OH 44060

### **Lake County Sheriff's Office**

104 East Erie Street

Painesville, OH 44077

### **Willoughby Police Department**

36700 Euclid Avenue

Willoughby, OH 44094

### **Willoughby Hills Police Department**

35405 Chardon Road

Willoughby Hills, OH 44094

### **Lakeland Comm. College Police Department**

7700 Clocktower Drive, Building A, Lower Level

Kirtland, OH 44094

REV: 5/9/2022



**Lake County  
General Health District**

**Public Health**

Prevent. Promote. Protect.

