

Drug Overdose Surveillance Report Lake County, Ohio: July 2021

The following report outlines emergency department (ED) and urgent care (UC) drug overdose events by Lake County residents during the month of July. During this timeframe, a total of 33 recorded drug overdose ED/UC events met the inclusion criteria listed below, accounting for 0.5% of all July ED/UC visits among Lake County residents. This represents a decrease from the previous month's 39 drug overdose ED/UC visits. No fatalities were reported among those reporting to ED/UCs during the month of July.

In July, Lake County drug overdose ED/UC admissions occurred among individuals ranging from 2 to 65 years of age. Five events involved an illicit substance, two involved prescription (Rx) medication, one involved alcohol poisoning, and 25 involved an unspecified substance (Figure 1). Moreover, 21 ED/UC visits resulted in routine discharge, while six left against medical advice (AMA), five were discharged to another healthcare facility, and one lacked reported discharge information.

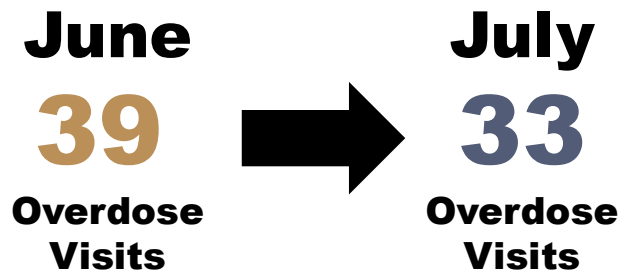
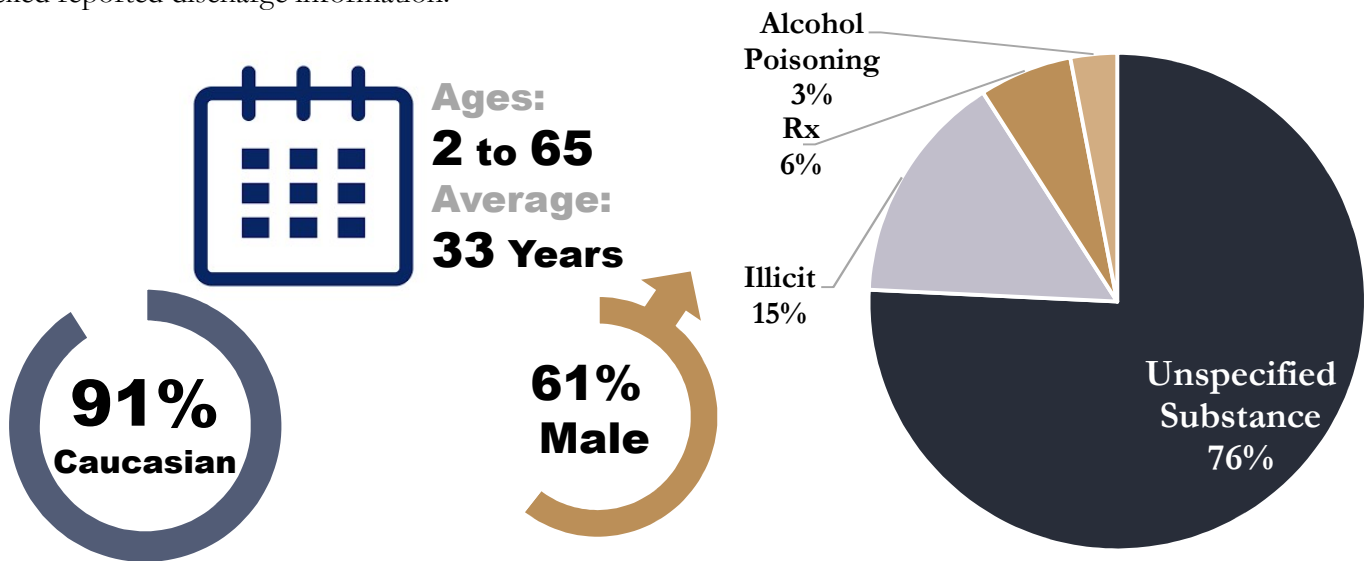


Figure 1. Overdoses by Type



Inclusion Criteria:

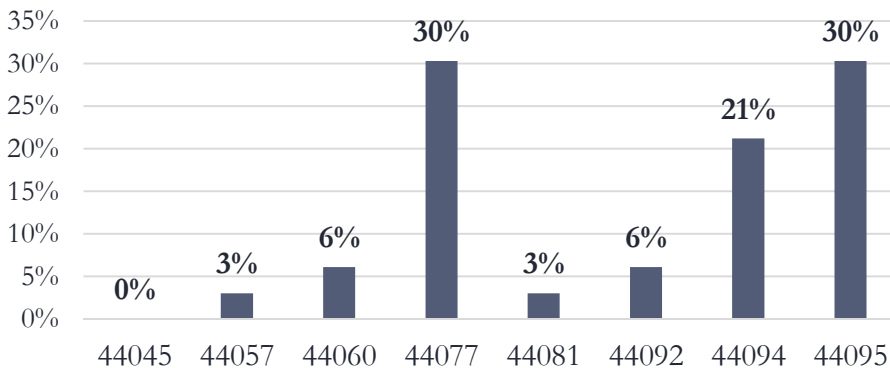
The data presented in this report was retrieved from Ohio's EpiCenter Health Monitoring System, as identified by the "Ohio Opioid-Related: Suspected Drug Overdose" classifier. Data prior to August 2019 was identified using the "Traumatic Injury: Drugs" classifier. This report contains information about 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

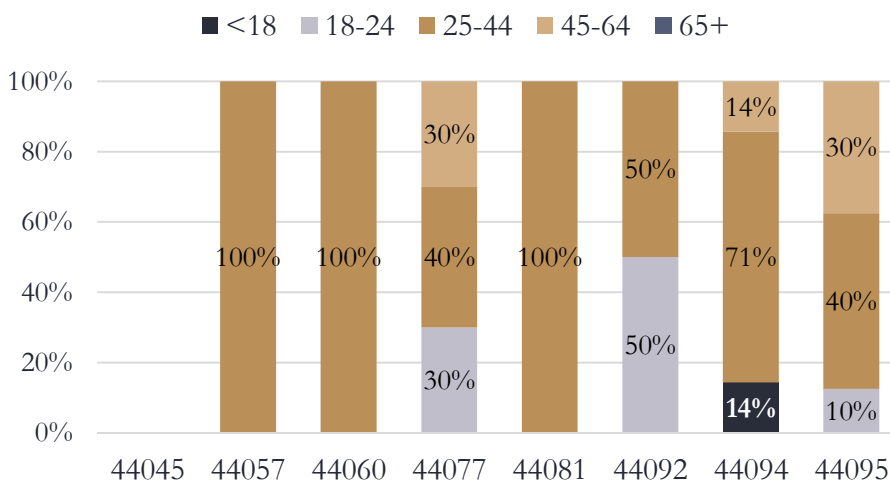
In what areas were overdoses most prevalent?

Figure 2. Overdose Occurrences by Zip Code of Residence



In July, the greatest frequency of ED/UC overdose events occurred amongst those residing in zip codes 44077 and 44095 (Figure 2). ED/UC overdose events increased in 44057 (0.4%), 44081 (3.0%), 44094 (8.4%), and 44095 (9.8%) and decreased in 44060 (17.0%), 44077 (3.0%), and 44092 (1.6%). For the 22nd consecutive month, no overdose visits were observed among residents of 44045.

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 (55%), followed by those 18 to 24 years of age (15%), 45 to 64 years of age (12%), under 18 years of age (9%), and those 65 years or older (9%).

At which Lake County facilities did overdose events present?

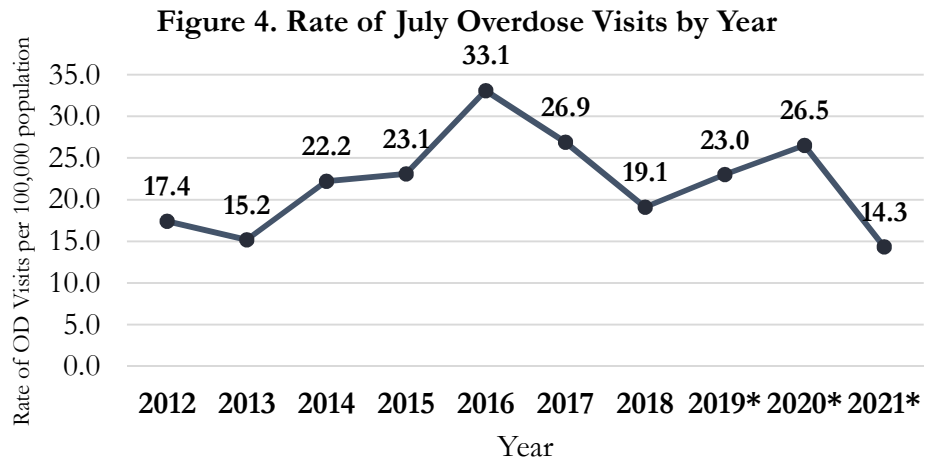
Table 1. Overdose Reporting Facility

Facility	N	(%)
Madison Campus	1	3
TriPoint Medical Center	10	30
West Medical Center	18	55
Outside of County	4	12
Total	33	100.0

During the month of July, the highest proportion of Lake County residents who presented to ERs/UCs for suspected drug overdoses presented to West Medical Center (55%), followed by TriPoint (30%), facilities outside of Lake County (12%), and Madison Campus (3%).

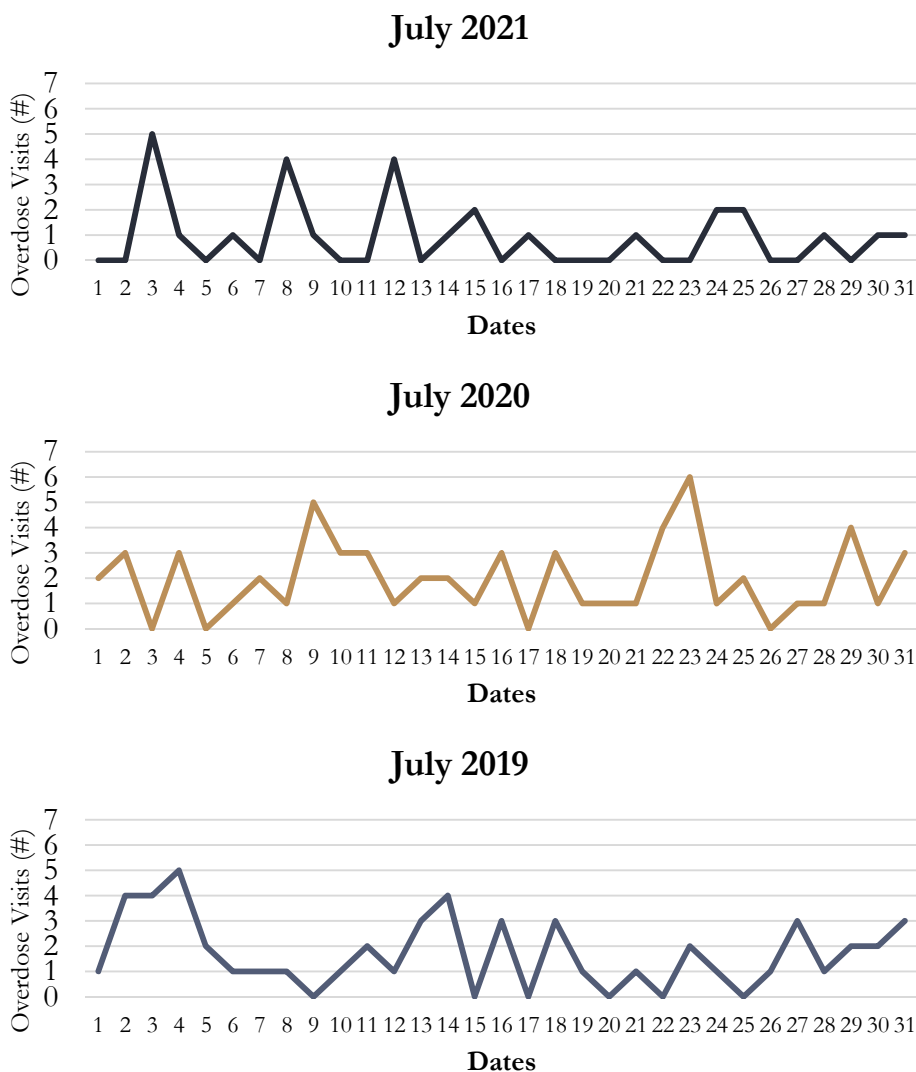
How does this compare with past years?

The July 2021 Lake County ED/UC overdose event rate per 100,000 population is the lowest rate observed for July in the past 10 years (Figure 4). It is 6% lower than the prior lowest rate of 15.2 observed in July 2013, and 59% lower than the peak rate of 33.1 observed in July 2016.



*Rates based on most current available annual population estimates, as obtained from data.census.gov; 2019-2021 rates are based on 2019 population estimates.

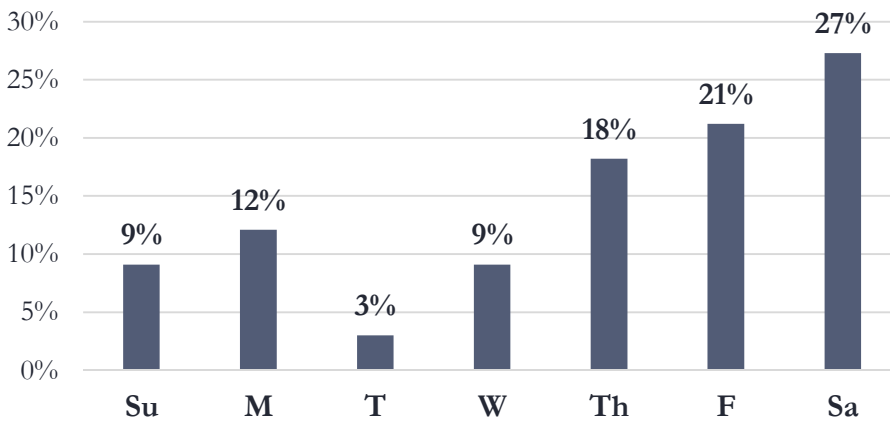
Figure 5. July Drug Overdose Daily Frequencies, 2019-2021



In order to provide for comparisons of daily ED/UC overdose event frequency, July events by day are illustrated for 2019, 2020, and 2021 (Figure 5). The daily maximum of five for July of 2021 is 17% lower than the daily maximum of six reported in 2020 and equivalent to the daily maximum in 2019. Moreover, mean daily ED/UC overdose event frequency for July of 2021 (0.9) is lower than the rates in July of 2020 (2.0) and 2019 (1.7).

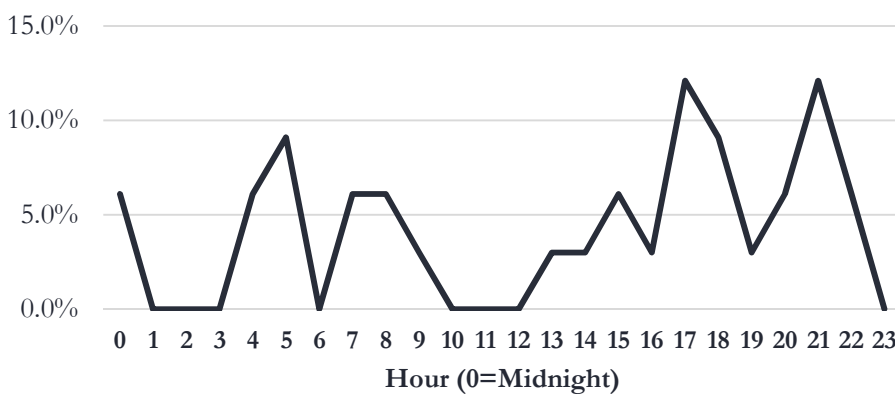
A total of 16 days with no ED/UC overdose events were observed during July of 2021, as compared to four days in July of 2020, and six in July of 2019. July 2021 overdose events peaked on July 3, as compared to the 2020 peak, which occurred on July 23, and the 2019 peak, which occurred on July 4.

Figure 6. Overdose Occurrences by Day of Week



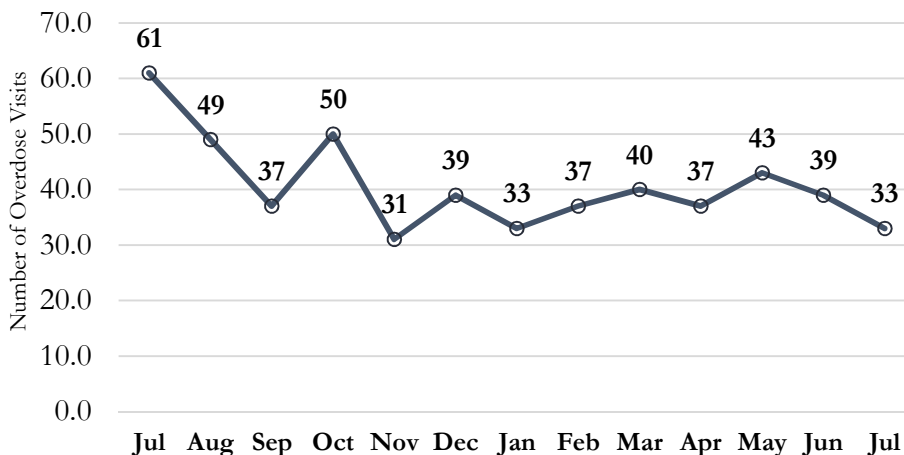
When organized by day of week, the frequency of ED/UC overdose events was highest on Saturdays (27%; Figure 6). Fridays experienced the next highest frequency of overdose events (21%), followed by Thursdays (18%), Mondays (12%), and Sundays and Wednesdays (9% each). Tuesdays had the lowest frequency of occurrences (3%).

Figure 7. Overdose Occurrences by Hour of Day



July ED/UC overdose events were most prominent around 5:00 and 9:00 pm (Figure 7). A secondary peak occurred around 5:00 am. No overdose events presented to ED/UCs during the hours of 1:00 - 3:00 am, 6:00 am, 10:00 am - 12:00 pm, or 11:00 pm during the month of July.

Figure 8. Overdose Counts – Past 12 Months



When organized by month, ED/UC overdose events decreased 39% from July to September, increased 35% from September to October, decreased 38% from October to November, increased 26% from November to December, decreased 15% from December to January, increased 21% from January to March, decreased 8% from March to April, increased 16% from April to May, and decreased 23% from May to July. A total of 262 ED/UC visits for drug-related overdose events have been observed thus far in 2021, as compared to 319 in the same period for 2020.

Lake County General Health District Resources



Project DAWN Naloxone Clinics

Project DAWN Clinics are held every Monday at 10:00 am at LCGHD in Command Room 303A on the third floor. Call (440) 350-2844 to register; walk-in attendance is welcome.

For individuals unable to attend these clinics, training and registration to receive a free naloxone kit is also available on the LCGHD website.

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: 8/12/2021



**Lake County
General Health District**

Public Health

Prevent. Promote. Protect.

