

Drug Overdose Surveillance Report Lake County, Ohio: November 2019

The following report outlines emergency department (ED) and urgent care (UC) drug overdose events by Lake County residents during the month of November. During the aforementioned timeframe, a total of 45 recorded drug overdose ED/UC events met the inclusion criteria listed below and occurred among Lake County residents, accounting for 0.6% of all November ED/UC visits, and decreasing from the previous month's 54 drug overdose ED/UC visits. No fatalities were reported among the cases presenting to EDs/UCs during the month of November.

In November, Lake County drug overdoses occurred among individuals ranging from 16 to 58 years of age. In total, two events involved prescription medications, two involved alcohol poisoning, and 41 involved an unspecified substance (Figure 1). Moreover, 24 ED/UC visits resulted in routine discharge, three left against medical advise, one was discharged to treatment, one was not seen, one was discharged to law enforcement, and 15 lacked reported discharge information.

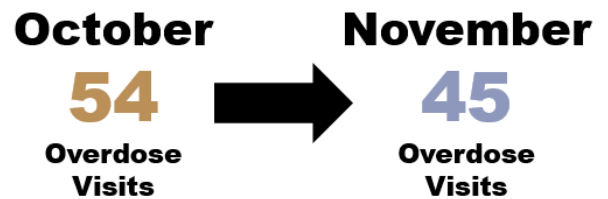
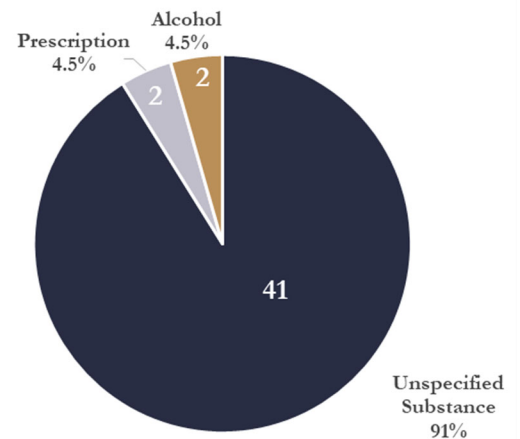
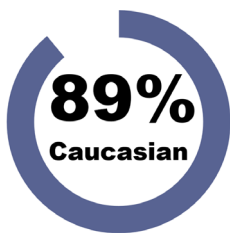


Figure 1. Overdose by Type



Ages:
16 to 58
Average:
34 Years



Inclusion Criteria:

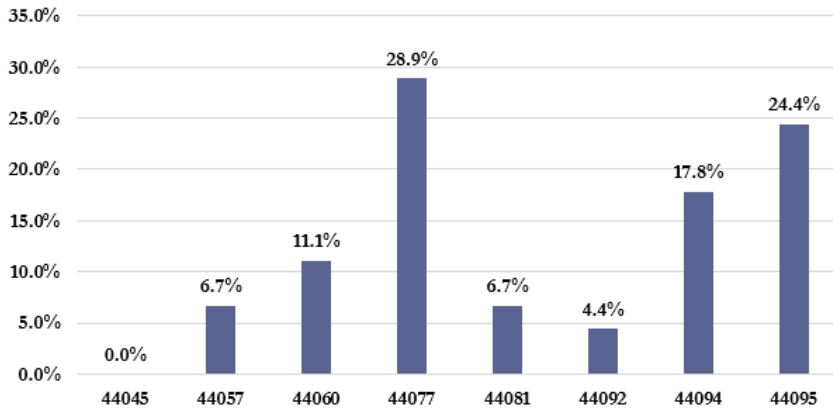
The data presented in this report was retrieved from Ohio's EpiCenter Health Monitoring System, as identified by the "Ohio Opioid-Related: Suspected Drug Overdose" classifier. Data prior to August 2019 was identified using the "Traumatic Injury: Drugs" classifier. This report contains information about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

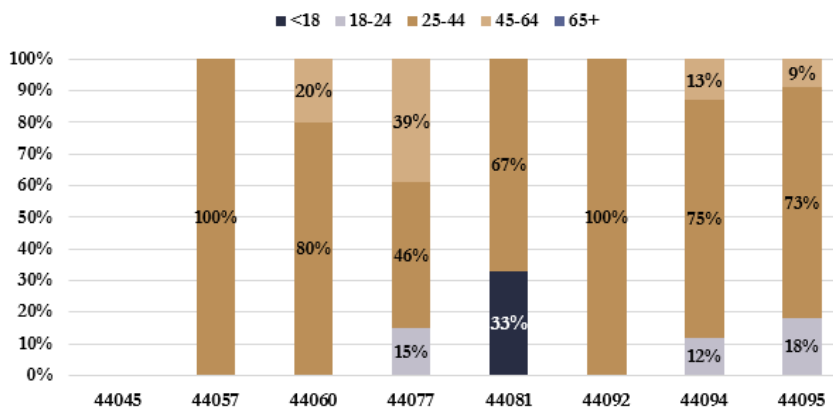
In what areas were overdoses most prevalent?

Figure 2. Overdose Occurrences by Zip Code of Residence



The greatest frequency of ED/UC overdose events occurred amongst those residing in zip code 44077 (Figure 2). The proportion of ED/UC overdose events increased by 3% for 44057 and 44094, 4.8% for 44077, and 11.4% for 44095 as compared to the month of October, while decreasing 18.5% for 44060, 2.6% for 44081, and 1.1% for 44092. As in October, no cases were observed from 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 (69%), followed by those 45 to 64 years of age (18%), those 45-64 years of age (11%) and those under 18 (2%). No overdose events were observed among those 65 years and older during the month of November.

At which Lake County facilities did overdose events present?

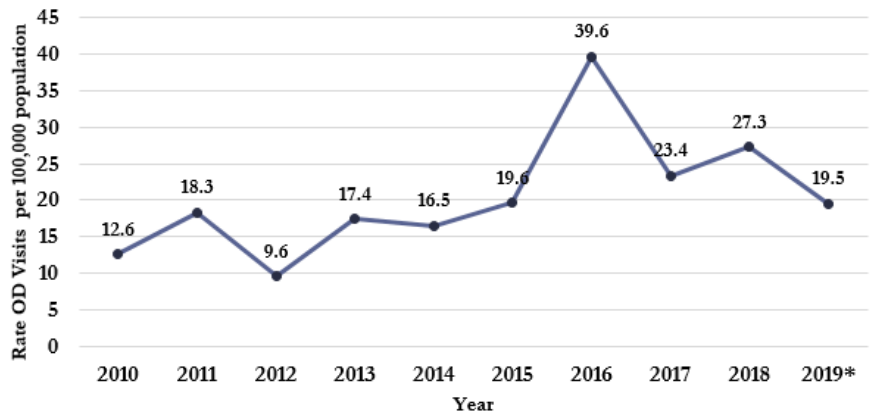
Table 1. Overdose Reporting Facility

Facility	N	(%)
Madison Campus	0	0
TriPoint Medical Center	15	33
West Medical Center	17	38
Outside of County	13	29
Total	45	100

Lake Health West Medical Center experienced the highest proportion of ED/UC visits (38%), followed by TriPoint (33%), and facilities outside of Lake County (29%; Table 1). No visits were recorded at Lake Health’s Madison Campus during the month of November.

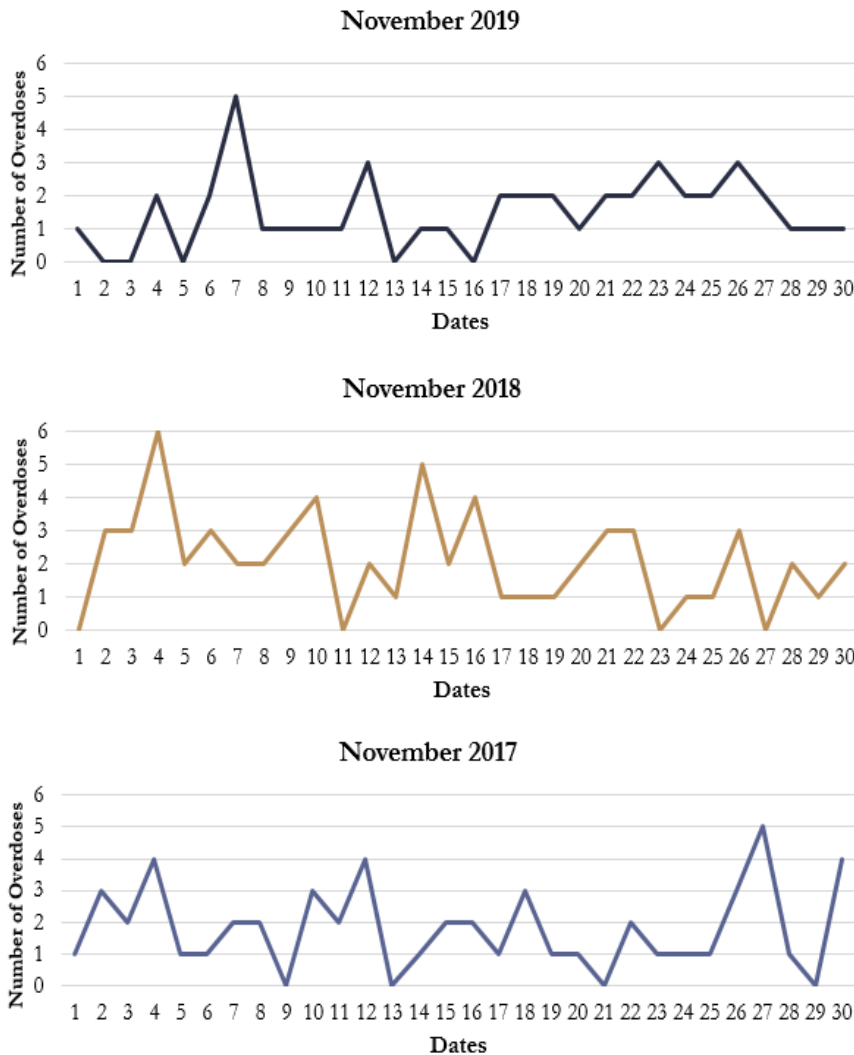
The November 2019 Lake County ED/UC overdose event rate is 29% lower than that of November 2018, and is 51% lower than the peak of 39.6 overdose visits per 100,000 population in November of 2016 (Figure 4).

Figure 4. Rate of November OD Visits by Year



*Rates based on most current available annual population estimates, as obtained from American Fact Finder; 2019 rates are based on 2018 population estimates.

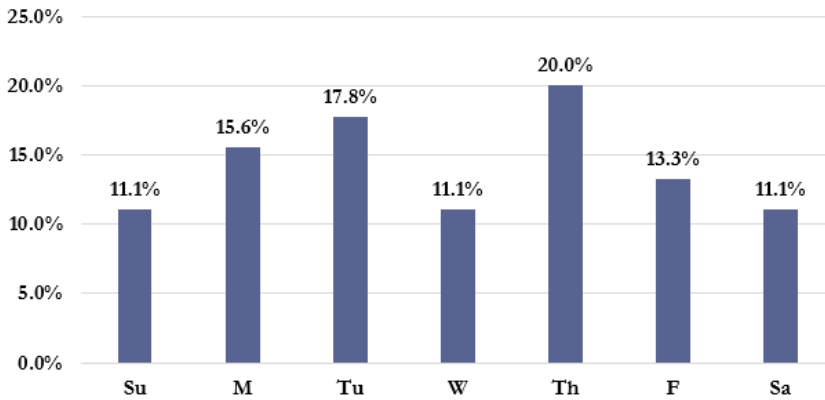
Figure 5. November Drug Overdose Daily Frequencies, 2017 to 2019



In order to provide for comparisons of daily ED/UC overdose event frequency, November ED/UC overdose events by day are illustrated for 2017, 2018, and 2019 (Figure 5). The daily maximum of five ED/UC overdose events in November 2019 is equivalent to the daily maximums observed during 2017, and lower than the daily maximum in 2018 (6). Mean daily ED/UC overdose frequency for November 2019 (1.5) is lower than that observed during November of 2018 (2.1) and November of 2017 (1.8). A total of five days with no ED/UC overdose events were observed during November of 2019, as compared to four days in both 2017 and 2018.

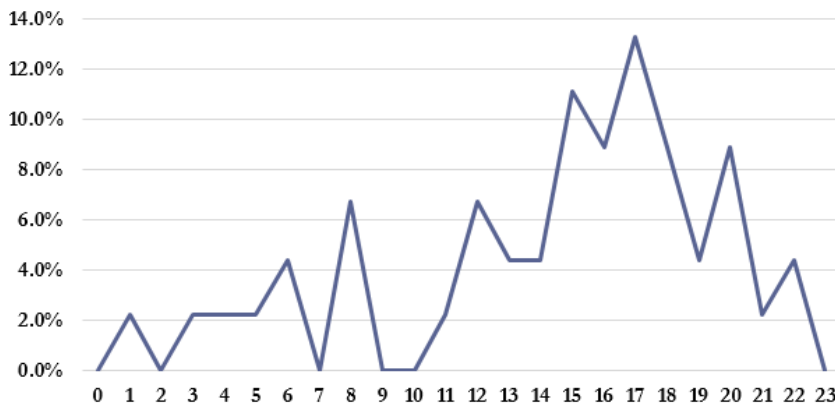
November 2019 overdose events peaked on November 7th, whereas primary peaks were observed on November 4 in 2018, and on November 27 in 2017.

Figure 6. Overdose Occurrences by Day of Week



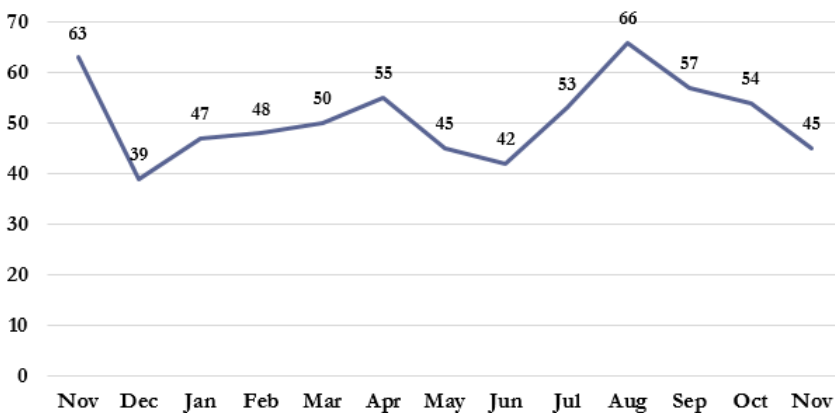
When organized by day of week, November ED/UC overdose events were lowest mid-week and during the weekend, with a subsequent increase on Monday, and a peak observed on Thursday (Figure 6).

Figure 7. Overdose Occurrences by Hour of Day



November ED/UC overdose events were more prominent during the afternoon and evening hours, and lowest during the morning hours (Figure 7). A peak occurred around 5:00 pm, with additional increases at 3:00 pm and 8:00 pm, respectively. No ED/UC overdose events were reported during the hours of 12:00 am, 2:00 am, 7:00 am, 9:00 am, 10:00 am, or 11:00 pm.

Figure 8. Overdose Counts - Past 12 Months



When organized by month, ED/UC overdose events decreased 38% between November and December of 2018, increased 41% between December and April, decreased 24% from April to June, increased 57% from June to August, and decreased 32% from August to November (Figure 8). To date, 562 ED/UC drug overdose events have been observed in 2019, as compared to 569 during the same timeframe in 2018.

Lake County General Health District Resources



Project DAWN Naloxone Clinics

Signature Health

38882 Mentor Avenue, Willoughby, OH 44094;
First Wednesday of each month at 4:00 pm.

Crossroads Health (formerly Beacon Health)

9220 Mentor Avenue, Mentor, OH 44060;
Second Tuesday of each month at 4:30 pm.

Lake County General Health District

5966 Heisley Road, Mentor, OH 44060;
Third Thursday of each month at 12:30 pm.

Windsor Laurelwood Center for Behavioral Medicine

35900 Euclid Avenue, Willoughby, OH 44094;
Fourth Wednesday of each month at 7:00 pm.

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

Pharmaceutical Drug Collection and Disposal Locations

Monday-Friday: 7:00 am - 8:00 pm

Saturday: 9:00 am - 5:00 pm

Sunday: 1:00 pm - 5:00 pm

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: 11/8/2019



**Lake County
General Health District**

Public Health

Prevent. Promote. Protect.

