

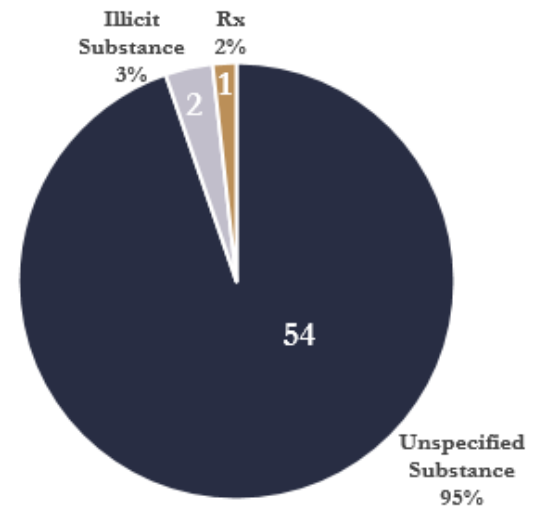
Drug Overdose Surveillance Report Lake County, Ohio: September 2019

The following report outlines emergency department (ED) and urgent care (UC) drug overdose events by Lake County residents during the month of September. During the aforementioned timeframe, a total of 57 recorded drug overdose ED/UC events met the inclusion criteria listed below and occurred among Lake County residents, accounting for 0.7% of all September ED/UC visits, and decreasing from the previous month's 66 drug overdose ED/UC visits. No fatalities were reported among the cases presenting to EDs/UCs during the month of September.

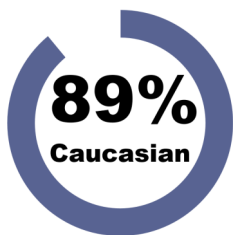
In September, Lake County drug overdoses occurred among individuals ranging from 15 to 65 years of age. In total, two events involved an illicit substance, one involved a prescription medication, and 54 involved an unspecified substance (Figure 1). Moreover, 34 ED/UC visits resulted in routine discharge, four left against medical advice, four were discharged to treatment, one was transferred to another hospital, one was discharged to law enforcement, and 13 lacked reported discharge information.



Figure 1. Overdoses by Type



Ages:
15 to 65
Average:
39 Years



Inclusion Criteria:

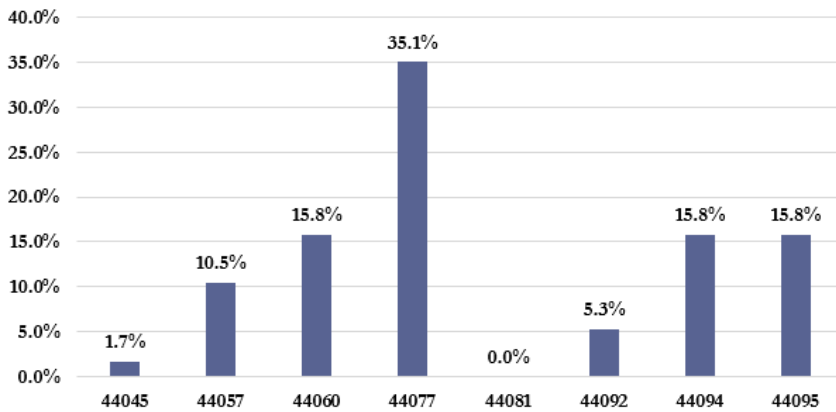
The data presented in this report was retrieved from Ohio's EpiCenter Health Monitoring System, as identified by the "Ohio Opioid-Related: Suspected Drug Overdose" classifier. Data prior to August 2019 was identified using the "Traumatic Injury: Drugs" classifier. This report contains information about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

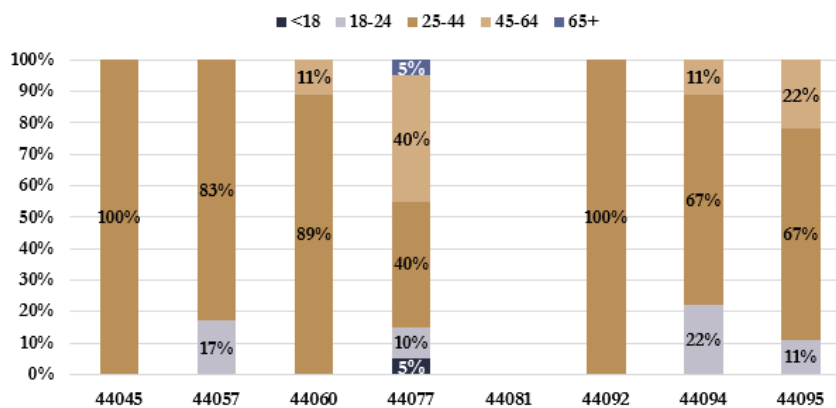
In what areas were overdoses most prevalent?

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 1.7% for 44045, 1.4% for 44057, 0.6% for 44060, and 5.2% for 44094 as compared to the month of August, while decreasing 1.2% for 44077, 3.8% for 44092, and 3.9% for 44095. Consistent with August, no overdoses were observed among residents of zip code 44081.

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 (60%), followed by those 45 to 64 years of age (26%) and 18 to 24 years of age (11%). Overdose event frequency was lowest among those under 18 (2%), and over 65 years of age (2%).

At which Lake County facilities did overdose events present?

Table 1. Overdose Reporting Facility

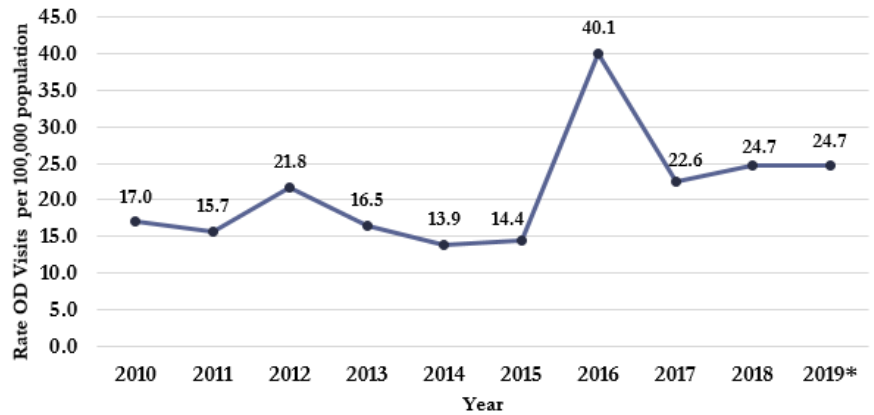
Facility	N	(%)
Madison Campus	2	4
TriPoint Medical Center	19	33
West Medical Center	23	40
Outside of County	13	23
Total	57	100

During the month of September, Lake Health West Medical Center experienced the highest proportion of ED/UC visits (40%), followed by TriPoint (33%), facilities outside of Lake County (23%), and Lake Health's Madison Campus (4%; Table 1).

September 2019 Drug Overdose Surveillance Report

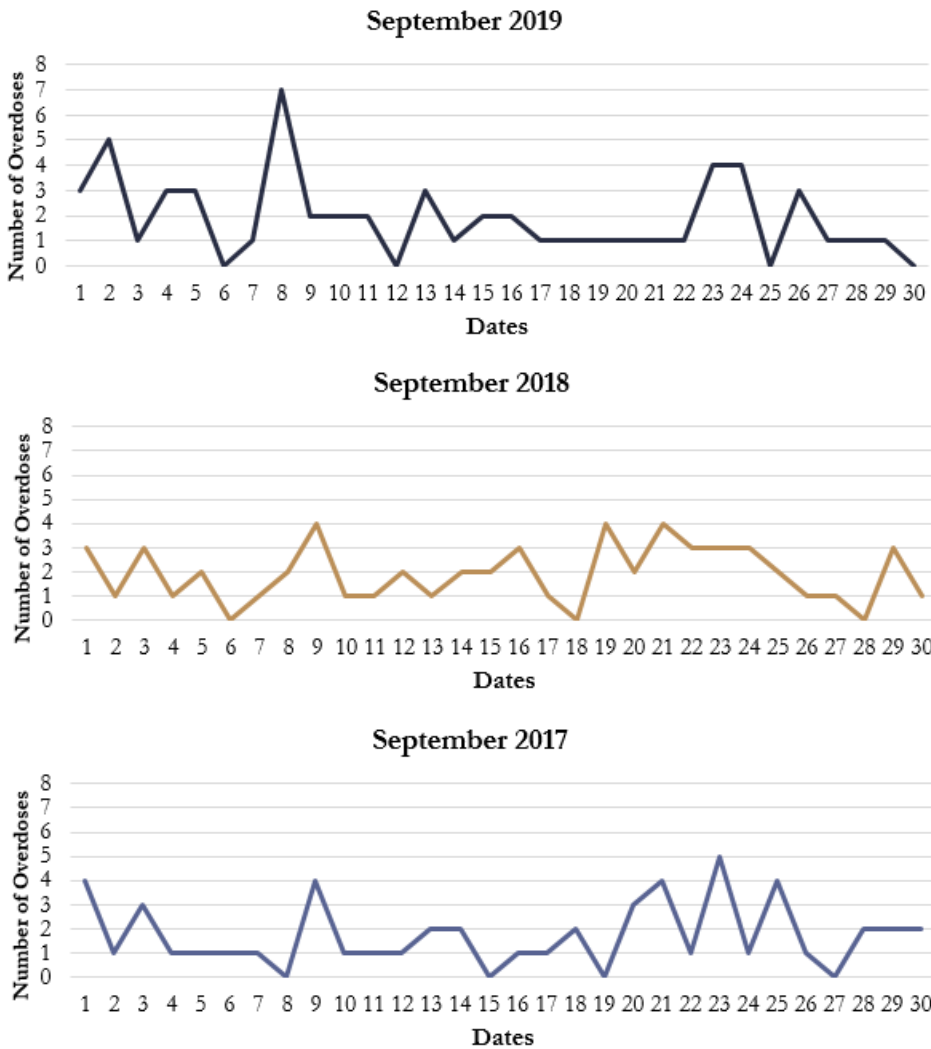
The September 2019 Lake County ED/UC overdose event rate is equivalent to that of September 2018, and is 38% lower than the peak of 40.1 overdose visits per 100,000 population in September of 2016 (Figure 4).

Figure 4. Rate of September 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.

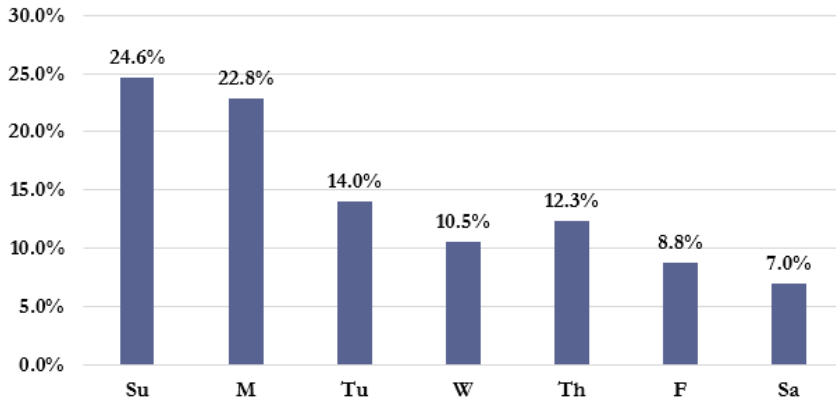
Figure 5. September Drug Overdose Daily Frequencies, 2017 to 2019



In order to provide for comparisons of daily ED/UC overdose event frequency, September ED/UC overdose events by day are illustrated for 2017, 2018, and 2019 (Figure 5). The daily maximum of seven ED/UC overdose events in September 2019 is higher than the daily maximums observed during both 2018 (4) and 2017 (5). Mean daily ED/UC overdose frequency for September 2019 (1.9) is equivalent to that observed in September of 2018 (1.9), and higher than 2017 (1.7). A total of three days with no ED/UC overdose events were observed during both September of 2019 and 2018, as compared to four days in 2017.

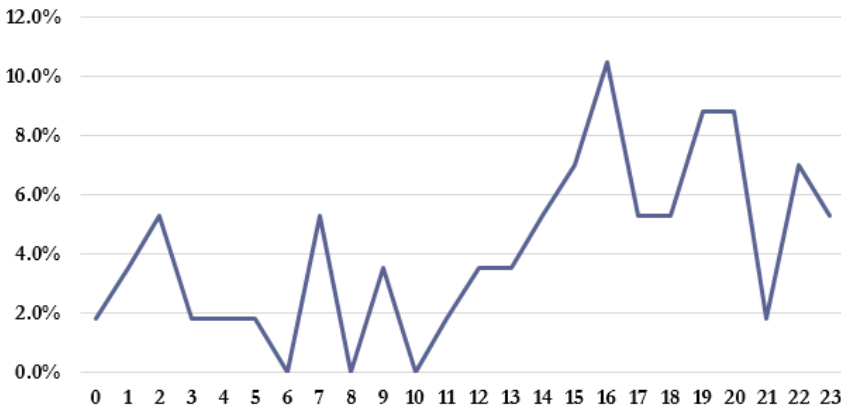
A peak in ED/UC overdose events was observed on September 8, 2019 (7), and additional increases in ED/UC overdose events were observed on September 2 (5), September 23 and 24 (4, respectively), as well as September 4 and 5, September 13, and September 26 (3, respectively).

Figure 6. Overdose Occurrences by Day of Week



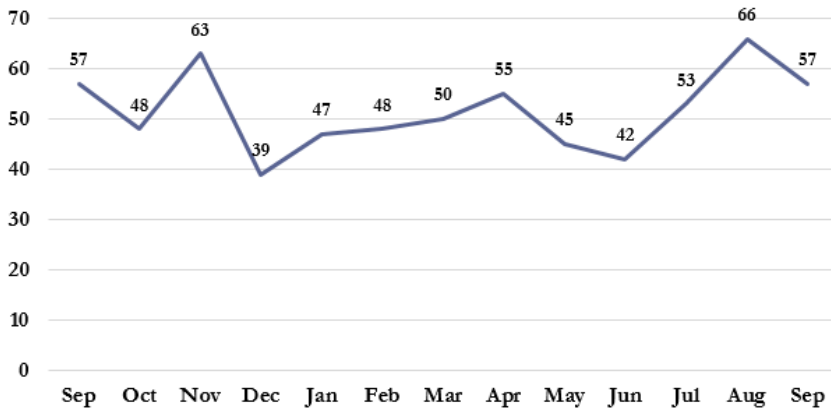
When organized by day of week, September ED/UC overdose events peaked on Sunday (24.6%) and gradually decreased throughout the remainder of the week (Figure 6). A small increase was observed on Thursday, with a continuing decline through Saturday.

Figure 7. Overdose Occurrences by Hour of Day



September ED/UC overdose events peaked at 4:00 pm, with additional increases at 7:00 pm and 8:00 pm (Figure 7). No ED/UC overdose events were reported during the hours of 6:00 am, 8:00 am, or 10:00 am, respectively.

Figure 8. Overdose Counts - Past 12 Months



When organized by month, ED/UC overdose events decreased 16% between September and October 2018, increased 31% between October and November, decreased 38% between November and December, increased 41% between December and April, decreased 24% from April to June, increased 57% from June to August, and decreased 14% from August to September (Figure 8). To date, 463 ED/UC drug overdose events have been observed in 2019, as compared to 461 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 p.m.

Crossroads Health (formerly Beacon Health)

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

Lake County General Health District

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

Windsor Laurelwood Center for Behavioral Medicine

35900 Euclid Avenue, Willoughby, OH 44094;
4th Wednesday of each month at 7:00 p.m.

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 a.m. - 8:00 p.m.

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

Sunday: 1:00 p.m.- 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: 10/3/2019



**Lake County
General Health District**

Public Health
Prevent. Promote. Protect.

