

Drug Overdose Surveillance Report

Lake County, Ohio: June 2019

The following report outlines Emergency Department (ED) and Urgent Care (UC) drug overdose (OD) visits by Lake County residents during the month of June. During the aforementioned timeframe, a total of 42 recorded drug overdose ED/UC visits met the inclusion criteria listed below and occurred among Lake County residents, accounting for 0.5% of all June ED/UC visits, and decreasing from the previous month's 45 drug overdose ED/UC visits. No fatalities were reported among cases presenting to EDs/UCs during the month of June.

In June, Lake County drug overdoses occurred among individuals ranging from 13 to 63 years of age. Two cases involved minors, ages 13 and 17, for whom the cause of overdose was unclear. In total, four events involved an illicit substance, one involved a prescription medication, and 37 involved an unspecified substance (Figure 1). Moreover, 19 ED/UC visits resulted in routine discharge, eight left against medical advice, four were discharged to treatment, three were transferred to another medical facility, two were discharged to court or law enforcement, one was not seen, and five lacked reported discharge information.

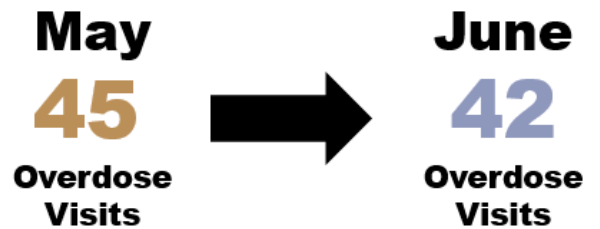
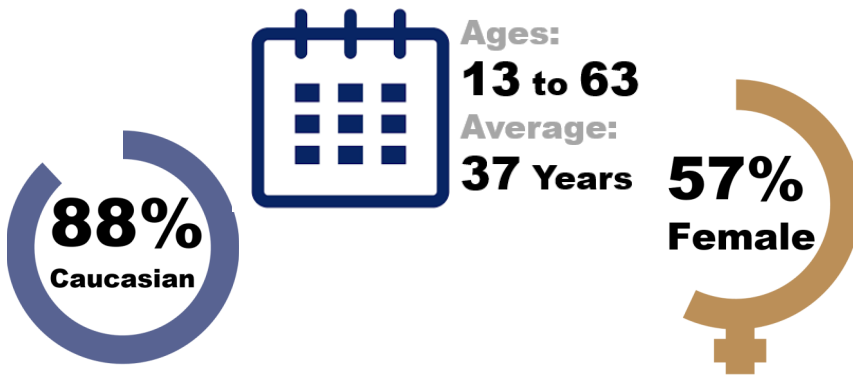
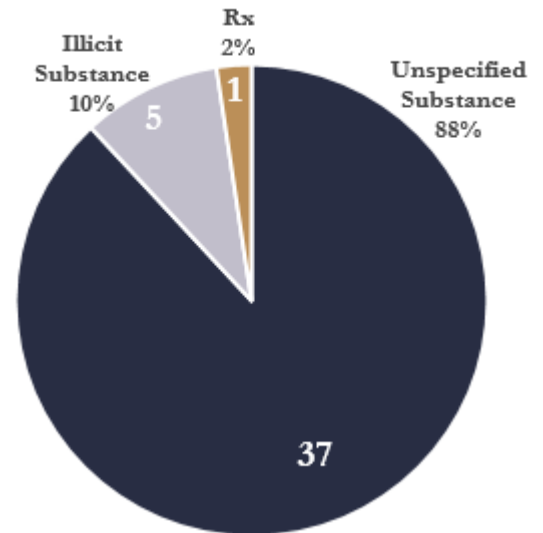


Figure 1. Overdoses by Type



Inclusion Criteria:

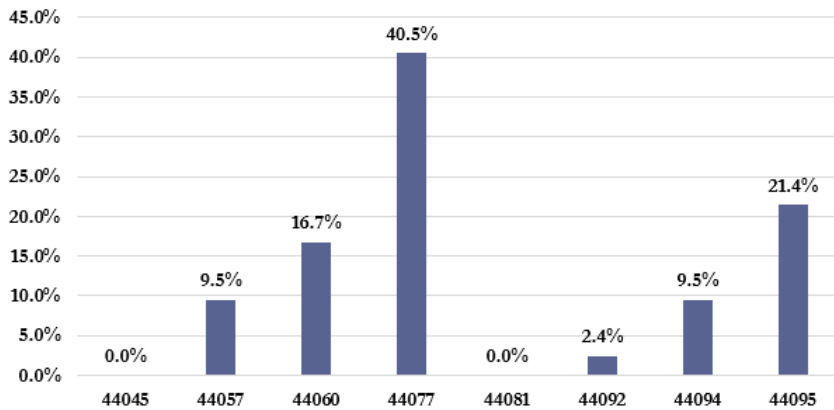
The data presented in this report was retrieved from Ohio's EpiCenter Health Monitoring System, as identified by the "Traumatic Injury: Drugs" classifier. This report contains information about Lake County residents, regardless of ED/UC location, and drug-related cases include all ED/UC admits specifying 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

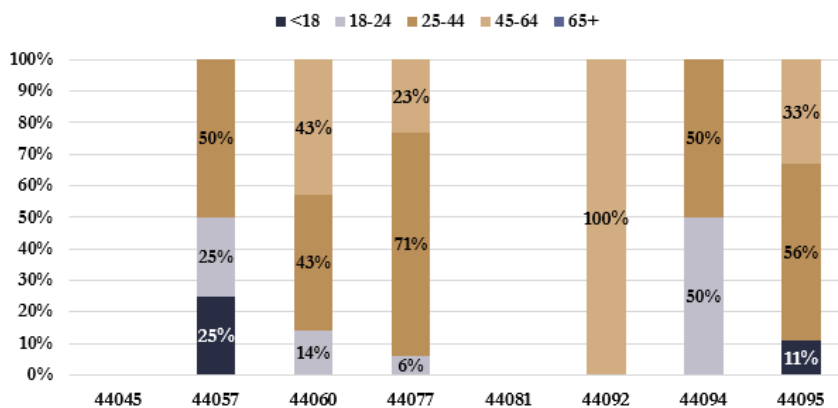
In what areas were overdoses most prevalent?

Figure 2. Overdose Occurrences by Zip Code of Residence



The greatest frequency of overdose events occurred amongst those residing in zip code 44077, and were lowest for those in zip codes 44045 and 44081 (Figure 2). The proportion of overdose events increased by 2.7% for 44077, 3.4% for 44060, and 12.5% for 44095, as compared to the month of May, while decreasing 6.1% for 44057 and 44094, and 4.2% for 44092, respectively.

Figure 3. Overdose Ages by Zip Code of Residence



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 (57%), followed by those 45 to 64 years of age (26%), 18 to 24 years of age (12%), and those under 18 years of age (5%). No overdoses were observed among those 65 years of age and older during the month of June.

At which Lake County facilities did overdose events present?

Table 1. Overdose Reporting Facility

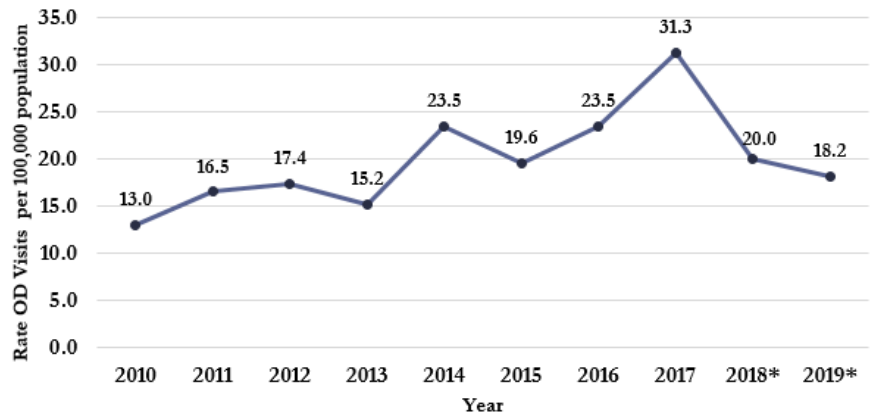
Facility	N	(%)
Madison Campus	1	2
TriPoint Medical Center	15	36
West Medical Center	16	38
Outside of County	10	24
Total	42	100

During the month of June, the majority of cases presented to West (38%) and TriPoint (36%), and nearly one in four cases presented to facilities outside of Lake County. This distribution of ER visits was similar to what was observed during the month of April.

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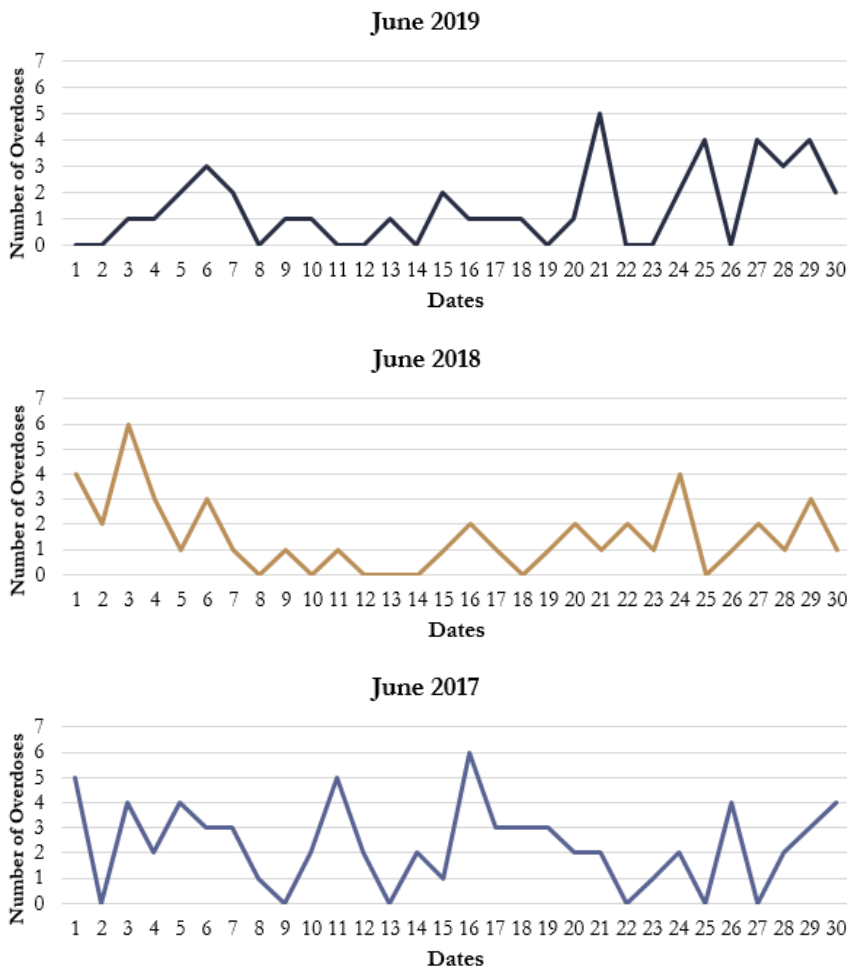
The June 2019 Lake County ED/UC overdose visit rate represents a six year low, decreasing 9% from June of 2018 (Figure 4). The 2019 rate is 42% lower than the peak of 31.3 overdose visits per 100,000 population in May of 2017.

Figure 4. Rate of June 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. June Drug Overdose Daily Frequencies, 2017 to 2019

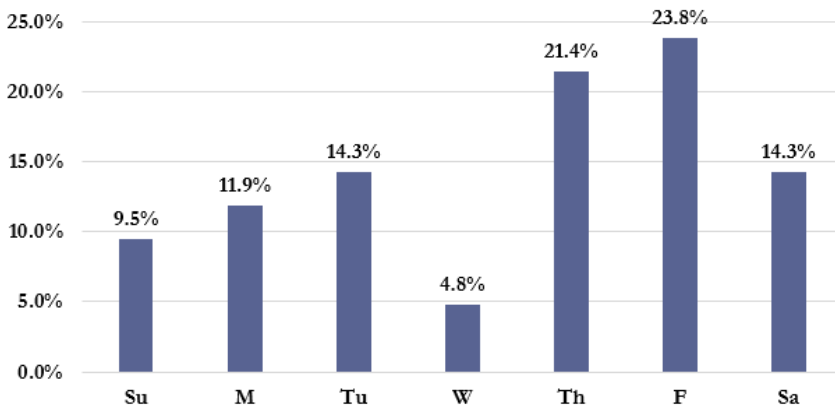


In order to provide for comparisons of daily overdose frequency, June overdose events by day are illustrated for 2017, 2018, and 2019 (Figure 5). The daily maximum of five overdoses in June 2019 is less than the daily maximums observed in both 2017 and 2018. Mean daily overdose frequency (1.4) has steadily declined from 1.5 in June 2018, and 2.4 in June 2017. A total of ten days with no overdose events reported were observed during June of 2019.

A single peak was observed on June 21, 2019, with secondary peaks on June 25, 27, and 29.

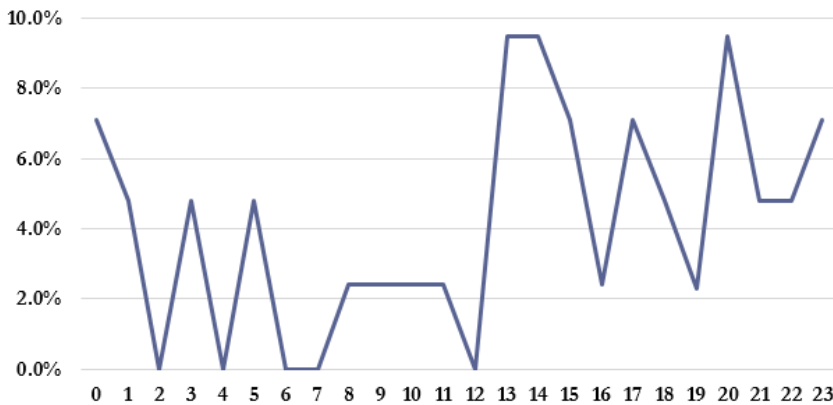
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Figure 6. Overdose Occurrences by Day of Week



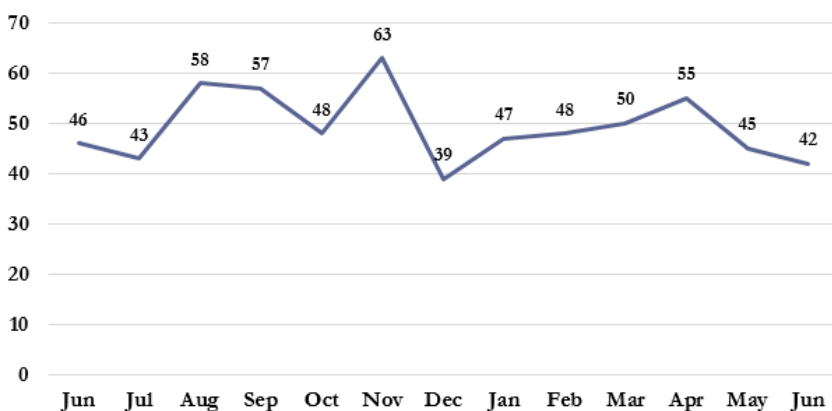
When organized by day of week, June overdose events peaked on Friday (24%), and were lowest on Wednesday (5%). The percentage of overdoses occurring on Saturday dropped nearly 6% from what was observed in May.

Figure 7. Overdose Occurrences by Hour of Day



June overdose events peaked multiple times throughout the day, including 1:00 pm, 2:00 pm, and 8:00 pm, with secondary peaks during the midnight hour, as well as 5:00 pm and 11:00 pm. Some of the peaks and secondary peaks mirror those observed during the month of May (1:00 pm, 5:00 pm, and 11:00 pm).

Figure 8. Overdose Counts - Past 12 Months



When organized by month, overdose events decreased 7% from June to July, increased 35% between July and August, decreased 17% between August and October, increased 31% between October and November, decreased 38% between November and December, increased 41% between December and April, and decreased 24% from April to June (Figure 8). To date, 287 ED/UC drug overdose event visits have been observed in 2019, as compared to 297 during the same time frame in 2018.

Lake County General Health District Resources



Project DAWN Naloxone Clinics

Lake County General Health District
5966 Heisley Road, Mentor, OH 44060;
First Wednesday of each month at 4:30 pm.

***Project DAWN clinics are currently transitioning to new locations, dates, and times.**

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: 7/3/2019



**Lake County
General Health District**

Public Health
Prevent. Promote. Protect.

