The following report outlines Emergency Department (ED) and Urgent Care (UC) drug overdose (OD) visits by Lake County residents during the month of September, 2018, and includes both fatal and nonfatal events. During the aforementioned timeframe, a total of 57 recorded drug overdose ED/UC visits met the inclusion criteria listed below. A total of 57 drug overdose events occurred among Lake County residents during the month of September, accounting for 0.7% of all September ED/UC visits, and decreasing from the previous month’s 58 drug overdose ED/UC visits.

September Lake County drug overdoses occurred among individuals ranging in age from two to 82 years of age, with a mean age of 33 years old. The youngest overdose event involved a two year-old patient, and resulted from an accidental poisoning by an unspecified drug. The majority of overdose patients were male (56%) and Caucasian (89%). In total, one event involved an accidental poisoning, two involved unspecified prescription medications, five involved an illicit substance, and 49 involved an unspecified substance (Figure 1).

August

58

Overdose Visits

September

57

Overdose Visits

Inclusion Criteria:

The data presented in this report was retrieved from Ohio’s EpiCenter Health Monitoring System. 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. 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 are overdoses most prevalent?

The greatest frequency of overdose events occurred amongst those residing in zip codes 44077 and 44060, and were lowest in zip codes 44045 and 44081 (Figure 2).

![Figure 2. Overdose Occurrences by Zip Code of Residence](image)

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 (54%), followed by those 18 to 24 years of age (21%), and 45 to 64 years of age (16%). Concurrently, overdose event frequencies were lowest amongst those 65 years of age and over (4%), and those under the age of 18 (5%).

At which Lake County facilities do overdose events present?

<table>
<thead>
<tr>
<th>Facility</th>
<th>N</th>
<th>(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Madison Campus</td>
<td>1</td>
<td>1.8</td>
</tr>
<tr>
<td>TriPoint Medical Center</td>
<td>23</td>
<td>40.4</td>
</tr>
<tr>
<td>West Medical Center</td>
<td>18</td>
<td>31.6</td>
</tr>
<tr>
<td>Outside of County</td>
<td>15</td>
<td>26.2</td>
</tr>
<tr>
<td>Total</td>
<td>57</td>
<td>100.0</td>
</tr>
</tbody>
</table>

During the month of September, the majority of overdose events presented in the central (40%) and western (32%) portions of the county (Table 1).
While notably less than the 2016 September rate, 2018 September Lake County ED/UC overdose visit rates increased 9% between 2017 and 2018 (Figure 4).

Figure 5. September Drug Overdose Daily Counts, 2016 to 2018

In order to provide for comparisons of daily overdose frequency, September overdose events by day are illustrated for 2016, 2017, and 2018 (Figure 5). Daily overdose count maximums were lowest in 2018 (4), as compared to 2017 (5) and 2016 (8). Daily overdose averages increased from 2017 (1.7) to 2018 (1.9), while remaining considerably lower than 2016 daily averages (3.1).

Consistently observed across each of the three years, a rise in overdose events on September 9 seems to precipitate a fall in overdose events around September 18 and 19.
When organized by weekday, September overdose events peaked on Saturday (23%) and Sunday (21%), followed by a decline from Monday to Tuesday, an increase midweek, and a gradual increase from Thursday to Friday and into the weekend (Figure 6).

Although variable, September overdose times by hour seem to peak mid-afternoon (3 pm), and be lowest around 1 am and 5 am, respectively (Figure 7).

When organized by month, 2018 overdose events increased linearly between January and May, thereafter experiencing a 28% decrease between May and June, a 7% decrease between June and July, a 34% increase between July and August, and a 2% decrease between August and September (Figure 8). To date in 2018, a total of 461 ER/UC visits for drug overdose events have been recorded amongst Lake County residents.
September 2018 Drug Overdose Surveillance Report

Lake County General Health District Resources

Project DAWN Naloxone Clinics
Lake County General Health District
5966 Heisley Road, Mentor, OH 44060;
Second Wednesday of each month at 5:00 pm.

Signature Health
38882 Mentor Avenue, Willoughby, OH 44094;
Third Tuesday of each month at 10:00 am.

Lake Area Recovery Center
2711 Donahoe Drive, Ashtabula, OH 44004;
Second Thursday of each month at 7:00 pm.

Signature Health
4726 Main Avenue, Ashtabula, OH 44004;
Last Wednesday of each month at 11:00 am.

Ravenwood (South St. Location)
695 South Street, Chardon, OH 44024;
First Monday of each month at 5:30 pm.

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: 11/15/2018

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

Lake County General Health District
Public Health
Prevent. Promote. Protect.

5966 Heisley Road • Mentor, Ohio 44060 • 440.350.2543 • www.lcghd.org