OVERDOSE FATALITY REVIEW

Review of 2020

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This presentation is an overview of unintentional overdose fatalities that occurred in Clermont County in 2020.

The data in this presentation is collected in partial fulfillment of the grant requirements of the Injury Prevention grant awarded to the Clermont County Public Health by the Ohio Department of Health.

The goal of this presentation is to provide a snapshot of trends related to overdose deaths in Clermont County.
DATA SOURCES

- Autopsy reports
- Toxicology screens
- Police reports
- Clerk of Courts records
- Additional public information available online

DATA COLLECTION LIMITATIONS

- Information protected by law (Health History)
- Some data points not specifically noted in reporting and therefore not captured
- Limited data on substance sources (legal and illegal)
- Limited information provided when cases are transported out of the county.
# OVERDOSE FATALITIES BY YEAR

Number of unintentional drug overdose deaths that occurred in Clermont County.

*Source: Clermont County Coroner's Office*

<table>
<thead>
<tr>
<th>Year</th>
<th>Unintentional Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>63 Unintentional Deaths</td>
</tr>
<tr>
<td>2019</td>
<td>54 Unintentional Deaths</td>
</tr>
<tr>
<td>2018</td>
<td>68 Unintentional Deaths</td>
</tr>
<tr>
<td>2017</td>
<td>76 Unintentional Deaths</td>
</tr>
<tr>
<td>2016</td>
<td>83 Unintentional Deaths; 1 Undetermined</td>
</tr>
</tbody>
</table>
OVERDOSE DEATHS BY MONTH, 2020

<table>
<thead>
<tr>
<th>Month</th>
<th>Number of Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan.</td>
<td>4</td>
</tr>
<tr>
<td>Feb.</td>
<td>6</td>
</tr>
<tr>
<td>Mar.</td>
<td>3</td>
</tr>
<tr>
<td>Apr.</td>
<td>3</td>
</tr>
<tr>
<td>May</td>
<td>6</td>
</tr>
<tr>
<td>June</td>
<td>7</td>
</tr>
<tr>
<td>July</td>
<td>6</td>
</tr>
<tr>
<td>Aug.</td>
<td>6</td>
</tr>
<tr>
<td>Sept.</td>
<td>5</td>
</tr>
<tr>
<td>Oct.</td>
<td>6</td>
</tr>
<tr>
<td>Nov.</td>
<td>5</td>
</tr>
<tr>
<td>Dec.</td>
<td>6</td>
</tr>
</tbody>
</table>
In 2020 there were 29 overdose fatalities during the first half of the year, identical to 2019. However, there were 9 more fatalities during the second half of the year.
PERCENTAGE OF DEATHS BY MONTH, 2017-2020

2017

2018

2019

2020
DEMOGRAPHICS & SOCIOECONOMICS
AGE SNAPSHOT, 2020

- **YOUNGEST**: 15-24 (9.5%)
- **AVERAGE**: 25-34 (25.4%)
- **OLDEST**: 65-74 (1.6%)

- **15-24**: 25.4%
- **25-34**: 25.4%
- **45-54**: 27%
- **55-64**: 11.1%
- **65-74**: 1.6%
- **n=(63)
Less than 1/3 of the cases were females in 2020. (n=19)
BREAKDOWN: AGE AND GENDER

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Males (n=44)</th>
<th>Females (n=19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-24</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td>25-34</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>35-44</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>45-54</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>55-64</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>65-74</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

AVERAGE AGE

Males: 37
Females: 39
MARITAL STATUS SNAPSHOT, 2020

Single 47.6%
Married 23.8%
Divorced 20.6%
Widowed 6.3%

74% of cases were single, divorced, widowed, or unknown.
EDUCATION SNAPSHOT

- Less than High School 15.87% (n=10)
- High School Graduate or GED 57.14% (n=36)
- Some College 9.52% (n=6)
- Associate's Degree 6.35% (n=4)
- Bachelor's Degree 1.58% (n=1)
- Master's Degree 1.58% (n=1)
- Doctorate or Professional Degree 1.58% (n=1)
- Unknown 6.35% (n=4)
27% of cases had a known occupation.

Among 2020 cases with a noted occupation, 52% worked labor intensive jobs.* (N=9)

Industries included: construction, landscaping, healthcare, service, and automotive operations.

*Labor intensive is defined as positions with a large physical component.

Stable Housing at Time of Death

- Stable Housing (79.36%)
- Not Stable (incl. Homeless) (14.28%)
- Unknown (6.35%)

No Stable Housing includes homeless individuals, staying with friends, living in a car, and couch surfing.
THE MOST COMMON CHARGES ARE:

- DRUG-RELATED (68.75%)
- DRIVING UNDER THE INFLUENCE OR DUI/OVI (47.91%)
- ASSAULT (37.5%)
- THEFT OR ROBBERY-RELATED (31.25%)

OTHER CHARGES INCLUDED UNDERAGE CONSUMPTION, DRIVING UNDER SUSPENSION, ENDANGERING CHILDREN, AND MORE.

*Percent of cases with a criminal history (n=48)
HEALTH FACTORS
1 in 4 cases were obese. (N=17)*

7% of cases reported digestive illnesses such as diverticulitis, ulcers, or hemorrhagic gastritis.

The most common physical illness identified:

- Diseases of the heart: 30% of cases (N=44)
- Respiratory illness: 14% of cases (N=21)
- Diseases of the liver: 8.84% of cases (N=13)

*Cases were identified as obese or BMI was calculated.

Many cases had multiple comorbidities.
19% of cases identified or reported a mental illness. (N=12) (including SUD DX by a professional only.)

- Depression: 5 cases
- Anxiety: 2 cases
- Bipolar: 2 cases
- PTSD: 1 case
- ADHD: 1 case
- SUD: 1 case

Mental illness is likely underreported due to lack of access to medical history and lack of physical evidence in autopsy.

3% of cases had a documented history of suicidal thoughts or attempts. (N=2).

*Some cases reported multiple mental illnesses.
According to SAMHSA, substance abuse disorders occur when the recurrent use of alcohol and/or drugs causes clinically and functionally significant impairment, such as health problems, disability, and failure to meet major responsibilities at work, school, or home.

**11%** of cases noted a history of substance abuse treatment. (N=7)

**71%** of cases identified or reported a history of substance abuse. (N=45)

Among 2020 cases with a noted history of substance abuse, heroin was the substance most reported. (33.3%, N=15).

8.8% of cases reported a history of fentanyl abuse (N=4).
DEATH INVESTIGATION
76% of deaths occurred at the case’s residence.

Other locations include various hotels, businesses and properties.

12.6% of cases were pronounced dead at the hospital or medical facility. (N=8) ( Includes DOA).
SCENE OF DEATH

57% OF CASES WHERE DRUG PARAPHERNALIA WAS FOUND AT THE SCENE. (n=36)

ILLICIT DRUGS FOUND AT SCENE
- Yes (38%)
- No (54%)
- Unknown (8%)

RX DRUGS FOUND AT SCENE
- Yes (19%)
- No (73%)
- Unknown (8%)
CASES NOTED NALOXONE WAS ADMINISTERED EITHER BY EMS, LAW ENFORCEMENT OR A BYSTANDER.** (N=11).

17% CASES NOTED NALOXONE WAS ADMINISTERED EITHER BY EMS, LAW ENFORCEMENT OR A BYSTANDER.** (N=11).

**Naloxone administration data is gleaned from police reports not EMS reports, and therefore is not always noted.
96% of cases' toxicology results were polysubstance in 2020. (N=52)

**96% of cases were a toxicology screen was performed (n=54, 85.7% of total cases).**
SUBSTANCES PRESENT BY YEAR

NOTE: DATA LABELS INDICATE THE PERCENTAGE OF TOTAL CASES THAT WERE POSITIVE FOR EACH SPECIFIC SUBSTANCE

Percentage

Marijuana
Cocaine
Methamphetamine
Heroin
Other opioids
Alcohol
Sedatives
Other RX
OTC
Anti-Depressants

2016 (n=77)
2017 (n=64)
2018 (n=62)
2020 (n=54)

Alcohol
Marijuana
Cocaine
Methamphetamine
Heroin
Other opioids
Sedatives
Other RX
OTC
Anti-Depressants

NOTE: DATA LABELS INDICATE THE PERCENTAGE OF TOTAL CASES THAT WERE POSITIVE FOR EACH SPECIFIC SUBSTANCE
OF CASES TOXICOLOGY RESULTS WERE POSITIVE FOR NALTREXONE (N= 10)
SUBSTANCES PRESENT BASED ON LOCATION

OPIOIDS

STIMULANTS

SEDATIVES
89% of cases' toxicology results were positive for at least one opioid. (N=54)

In 2019, 90% of cases toxicology results were positive for fentanyl, similar to the 89% in 2020.
TRENDS
Clermont County is ranked 11th in the state of Ohio for unintentional drug overdose deaths from 2010-2019.

*Source Ohio Department of Health, 2019 Drug Overdose Data: General Findings*
PERCENTAGE OF FENTANYL AND HEROIN RELATED DRUG OVERDOSE DEATHS BY YEAR, CLERMONT COUNTY RESIDENTS

INCLUDES CLERMONT COUNTY RESIDENTS WHO DIED DUE TO UNINTENTIONAL DRUG POISONING WHERE THE HEROIN IDICATOR OR FENTANYL AND ITS ANALOGUES ARE SPECIFICALLY NOTED ON THE DEATH CERTIFICATE.

*2020 Data is still preliminary and subject to change Source Ohio Public Health Data Warehouse, 5/21/2020
NALOXONE ADMINISTRATIONS BY OHIO EMS PROVIDERS,
CLERMONT COUNTY

**83.4% of Transporting Ohio EMS Agencies Reporting.**
Source: Ohio Emergency Medical Services, Naloxone Administration by County.
NALOXONE ADMINISTRATION RATE BY ZIP CODE, CLERMONT COUNTY 2020

**85.5% of Transporting Ohio EMS Agencies Reporting

Source: Ohio Emergency Medical Services, Naloxone Administration by County.
**NALOXONE ADMINISTRATION RATE BY ZIP CODE, CLERMONT COUNTY 2020**

**85.5% of Transporting Ohio EMS Agencies Reporting**

<table>
<thead>
<tr>
<th>City</th>
<th>Zip Code</th>
<th>Total Doses of Naloxone</th>
<th>Population (2010 US Census)</th>
<th>Rate (per 100,000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amelia</td>
<td>45102</td>
<td>50</td>
<td>22,680</td>
<td>220.46</td>
</tr>
<tr>
<td>Batavia</td>
<td>45103</td>
<td>73</td>
<td>31,485</td>
<td>231.86</td>
</tr>
<tr>
<td>Bethel</td>
<td>45106</td>
<td>26</td>
<td>12,349</td>
<td>210.54</td>
</tr>
<tr>
<td>Blanchester</td>
<td>45107</td>
<td>21</td>
<td>9,236</td>
<td>227.38</td>
</tr>
<tr>
<td>Chilo</td>
<td>45112</td>
<td>0</td>
<td>64</td>
<td>0</td>
</tr>
<tr>
<td>Fayetteville</td>
<td>45118</td>
<td>12</td>
<td>3,614</td>
<td>332.04</td>
</tr>
<tr>
<td>Felicity</td>
<td>45120</td>
<td>24</td>
<td>3,672</td>
<td>653.59</td>
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<tr>
<td>Georgetown</td>
<td>45121</td>
<td>34</td>
<td>9,036</td>
<td>376.27</td>
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<tr>
<td>Goshen</td>
<td>45122</td>
<td>52</td>
<td>11,054</td>
<td>470.42</td>
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<tr>
<td>Hamersville</td>
<td>45130</td>
<td>9</td>
<td>3,913</td>
<td>230</td>
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<td>Loveland</td>
<td>45140</td>
<td>71</td>
<td>53,267</td>
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<td>Miamiville</td>
<td>45147</td>
<td>0</td>
<td>147</td>
<td>0</td>
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<tr>
<td>Milford</td>
<td>45150</td>
<td>98</td>
<td>31,394</td>
<td>312.16</td>
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<td>Moscow</td>
<td>45153</td>
<td>6</td>
<td>1,665</td>
<td>360.36</td>
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<tr>
<td>Neville</td>
<td>45156</td>
<td>0</td>
<td>98</td>
<td>0</td>
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<tr>
<td>New Richmond</td>
<td>45157</td>
<td>60</td>
<td>9,758</td>
<td>614.88</td>
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<tr>
<td>Newtonsville</td>
<td>45158</td>
<td>4</td>
<td>370</td>
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<tr>
<td>Owensville</td>
<td>45160</td>
<td>3</td>
<td>699</td>
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<tr>
<td>Pleasant Plain</td>
<td>45162</td>
<td>4</td>
<td>2,519</td>
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<tr>
<td>Williamsburg</td>
<td>45176</td>
<td>37</td>
<td>9,100</td>
<td>406.59</td>
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<tr>
<td>Cincinnati</td>
<td>45244</td>
<td>30</td>
<td>28,656</td>
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<tr>
<td>Cincinnati</td>
<td>45245</td>
<td>174</td>
<td>18,542</td>
<td>938.41</td>
</tr>
<tr>
<td>Cincinnati</td>
<td>45255</td>
<td>35</td>
<td>21,775</td>
<td>100.73</td>
</tr>
</tbody>
</table>

Source: Ohio Emergency Medical Services, Naloxone Administration by County.

Rates were calculated with the population estimated in 2019. If this data was not available, the 2010 US Census Demographic profile was used.
NALOXONE ADMINISTRATION RATE COMPARED TO INCIDENCE OF OVERDOSE FATALITIES BY ZIP CODE, CLERMONT COUNTY 2020

Naloxone Administration Rates

Overdose Fatality and Naloxone Administration Rates

Overdose Fatality Rates
OPIOID PRESCRIPTIONS DISPENSED

BY YEAR, CLERMONT COUNTY

THE TOTAL NUMBER OF PRESCRIBED OPIOID DOSES DISPENSED IN CLERMONT COUNTY CONTINUES TO DECREASE, WITH A 4.6% DECREASE BETWEEN 2015 AND 2019.

DURING THE SAME TIME FRAME, THERE WAS A 43% INCREASE IN THE TOTAL NUMBER OF STIMULANT DOSES DISPENSED.

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OPIOID PRESCRIPTIONS DISPENSED

BY YEAR, CLERMONT COUNTY

DOSES PER PATIENT

DOSES PER CAPITA

***2020 Reporting the first quarter
** Solid Oral Doses
*Population Data from 2010 Ohio Department of Development
Source: Ohio Automated Rx Reporting System
THE SYRINGE SERVICES PROGRAM CONTINUED TO SERVE CLERMONT COUNTY RESIDENTS.

2020 ACCOMPLISHMENTS

DESPITE THE COVID-19 PANDEMIC, SERVICES ACROSS THE SPECTRUM OF TREATMENT CONTINUED TO SERVE CLIENTS ACROSS THE COUNTY.

15,653 SYRINGES EXCHANGED
351 VISITS BY CLERMONT COUNTY RESIDENTS
254 DOSES OF NALOXONE DISTRIBUTED

CLERMONT COUNTY RECOVERY CENTER AND CHILD PROTECTIVE SERVICES BEGAN COORDINATING CARE FOR HIGH-RISK FAMILIES.

PROJECT D.A.W.N.

PROJECT D.A.W.N. KITS DISTRIBUTED IN CLERMONT COUNTY IN 2020

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INTERVENTIONS TO CONSIDER
This work is funded either in whole or in part by a grand awarded by the Ohio Department of Health, Office of Health Improvement and Wellness, Violence and Injury Prevention Section and as a sub award of a grant issued by Preventative Health and Health Services BLock Grant under the Injury Prevention Program Grant. Grant award number r 6NBO1OT009137-01-03, and CFDA number 93.758