

Mahoning County Overdose Surveillance Report January 2019



Public Health
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Mahoning County
District Board of Health

DRUG OVERDOSE CRISIS

Mahoning County has been experiencing a drastic increase of drug overdoses and drug overdose deaths in the past few years. In 2015, Ohio (29.9 per 100,000) was tied with Kentucky as the 3rd (third) state with the highest age-adjusted drug overdose rates in the Country¹. **In 2016, the state of Ohio (39.1 per 100,000) increased to having the 2nd (second) highest age-adjusted drug overdose rates in the Country².** From 2010-2015, Mahoning County was ranked 7th (seventh) in the state for unintentional drug overdose deaths (just number of deaths, not crude or age adjusted rates)³. **Overall, from 2011-2016 and also just in 2016 alone, Mahoning County decreased in both to ranking 11th (eleventh) in the state for unintentional drug overdose deaths (just number of deaths, not crude or age adjusted rates)⁴.**

The Mahoning County District Board of Health (MCDBOH) was awarded a grant on January 1, 2017, from the Ohio Department of Health (ODH) that will help to increase opioid prevention efforts in Mahoning County, with the first step being an increase in data collection and analysis. Data investigations will help with understanding the full scope of what is occurring in Mahoning County, and will help with identifying the most appropriate and impactful prevention efforts. All data from 2016, 2017, and 2018 should be considered preliminary findings as it takes time to process through the numerous and different systems. This data is not a total representation of overdoses in Mahoning County.

1. Deaths are classified using the *International Classification of Diseases, Tenth Revision*. Drug overdose deaths are identified using underlying cause-of-death codes X40-X44, X60-X64, X85, and Y10-Y14. Data table available at: https://www.cdc.gov/nchs/data/databriefs/db273_table.pdf#4.

Source: Hedegaard H, Warner M, Miniño AM. *Drug Overdose Deaths in the United States, 1999-2015*. NCHS data brief, no 273. Hyattsville, MD: National Center for Health Statistics. 2017.

2. Deaths are classified using the *International Classification of Diseases, Tenth Revision*. Drug-poisoning (overdose) deaths are identified using underlying cause-of-death codes X40-X44, X60-X64, X85, and Y10-Y14. Data table available at: https://www.cdc.gov/nchs/data/databriefs/db294_table.pdf.

Source: Hedegaard H, Warner M, Miniño AM. *Drug Overdose Deaths in the United States, 1999-2016*. NCHS data brief, No 294. Hyattsville, MD: National Center for Health Statistics. 2017.

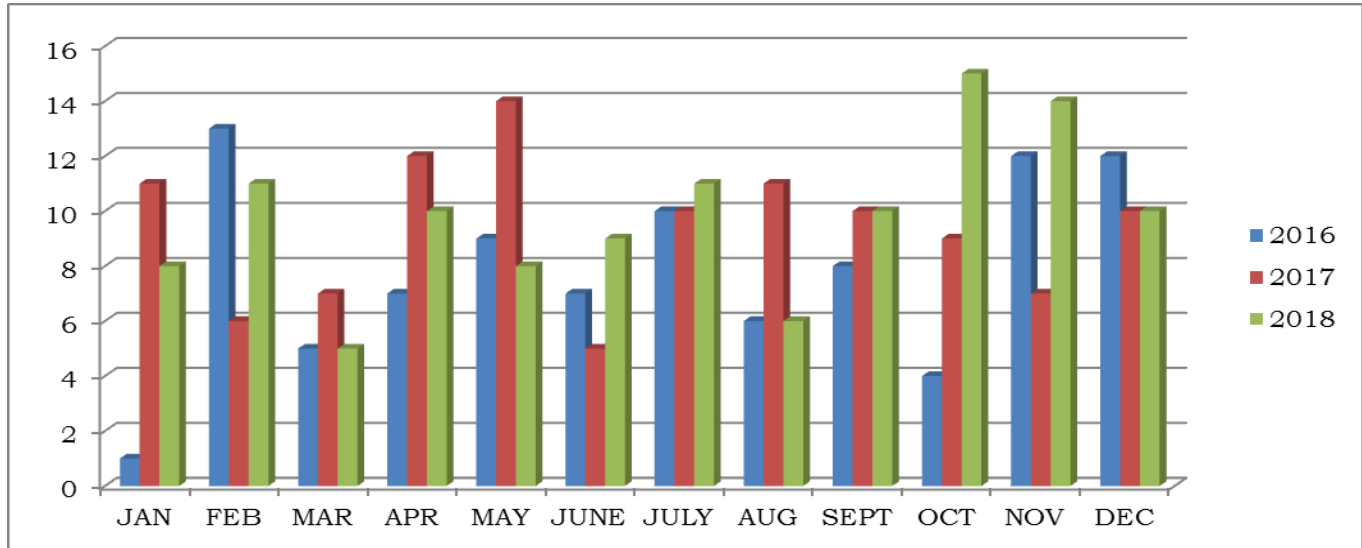
3. Ohio Department of Health. *2015 Ohio Drug Overdose Data: General Findings*. Report available at: <http://www.odh.ohio.gov/-/media/ODH/ASSETS/Files/health/injury-prevention/2015-Overdose-Data/2015-Ohio-Drug-Overdose-Data-Report-FINAL.pdf>.

4. Ohio Department of Health. *2016 Ohio Drug Overdose Data: General Findings*. Report available at <https://www.odh.ohio.gov/-/media/ODH/ASSETS/Files/health/injury-prevention/2016-Ohio-Drug-Overdose-Report-FINAL.pdf?la=en>.

UNINTENTIONAL DRUG OVERDOSE DEATHS

Unintentional drug overdose deaths are on the rise. This section includes unintentional overdose deaths from 2014 – 2018 in Mahoning County, Ohio.

◦ There have been **99 confirmed** unintentional drug overdose deaths in 2018. There are **18** speculated unintentional drug overdose deaths currently being processed. There was no more than one death in a day. (Data as of 1/3/2019)

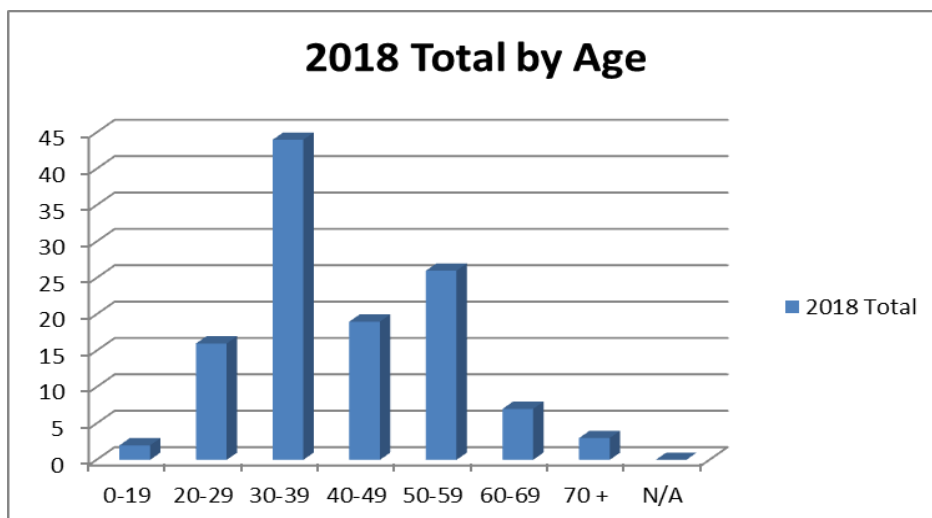


2018 Total (n=117: 99 confirmed)
December (n=10: only 1 confirmed)

By Gender:

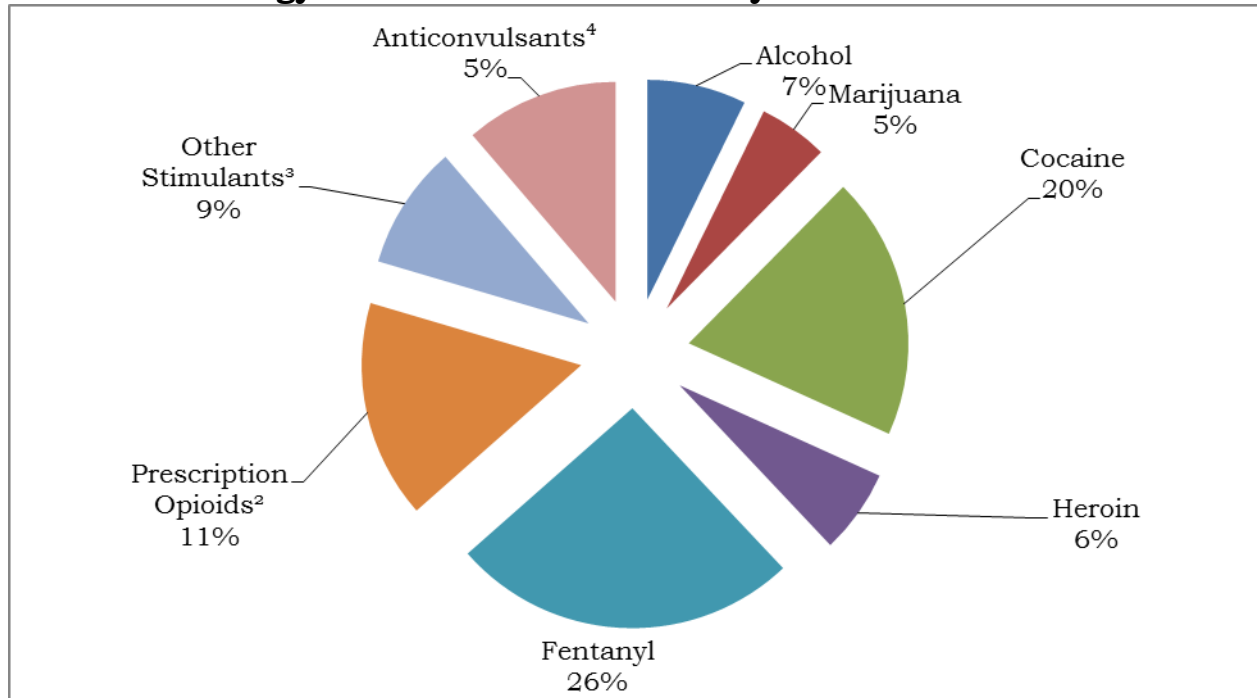
	Dec 2018	Total 2018	%
Female	4	37	32%
Male	6	80	68%
Total	10	117	100%

By Age:



UNINTENTIONAL DRUG OVERDOSE DEATHS cont...

Toxicology: Substances that Primarily Contributed to Death



Total 2018 (n=99 Confirmed)

* 2016, 2017, and 2018 unintentional drug overdose deaths will take some time to process not only through the Coroner's Office but also through the Ohio Department of Health and the Mahoning County Overdose Fatality Review, and should be considered preliminary findings. It is expected that more unintentional overdose deaths will be added to all final counts.

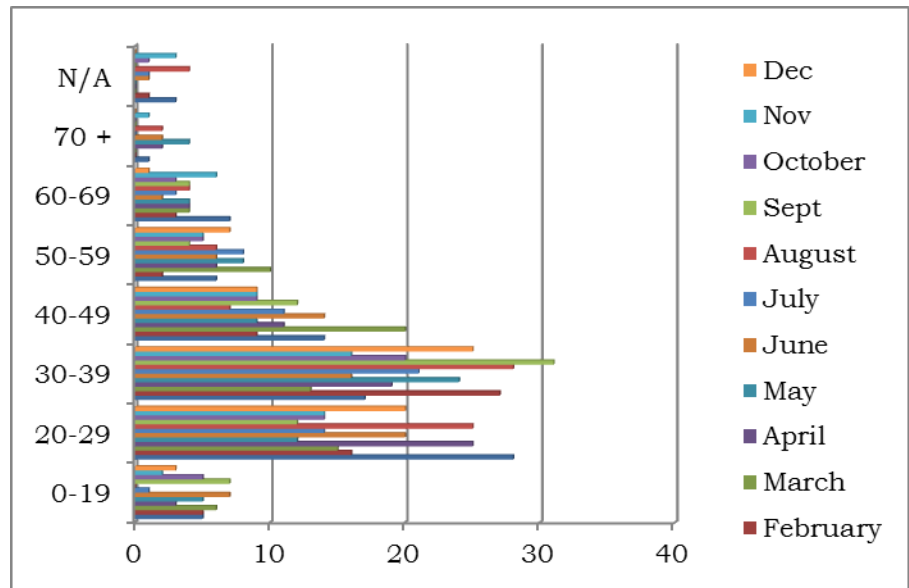
1. There have been 113 unintentional drug overdose deaths in 2017. There are 2 speculated unintentional drug overdose deaths currently being processed.
2. Prescription opioids include: Oxycodone, Hydrocodone, Hydromorphone, Tramadol, Methadone, Buprenorphine, Morphine, Codeine, Propoxyphene, Meperidine, etc.
3. Other stimulants include: Amphetamine, Methamphetamine, Pseudoephedrine, Methylphenidate, etc.
4. Anticonvulsants include: Gabapentin, Carbamazepine, Topiramate, etc.

EMERGENCY DEPARTMENT (ED) EPICENTER DATA

This section includes EpiCenter data for patients who presented to Mahoning County EDs with “drug”, “overdose”, and/or “withdrawal” listed as the reason for the visit¹.

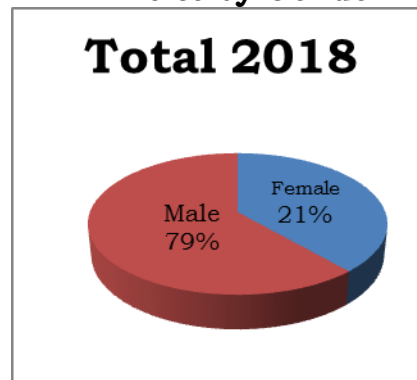
ED Visits by Patient Zip Code		
Zipcode	December	2018 Total
44401 (Berlin Center)	2	10
44405 (Campbell)	2	23
44406 (Canfield)	4	33
44422 (Greenford)	0	3
44429 (Lake Milton)	1	6
44436 (Lowellville)	0	7
44442 (New Middletown)	0	6
44443 (New Springfield)	0	7
44449	0	6
44451 (North Jackson)	1	9
44452 (North Lima)	0	0
44454 (Petersburg)	0	1
44471 (Struthers)	4	46
44501 (Downtown Youngstown)	1	15
44502 (Youngstown)	4	71
44503 (Downtown Youngstown)	0	9
44504 (Northside Youngstown)	1	22
44505 (Liberty - Youngstown)	8	65
44506 (Eastside Youngstown)	0	8
44507 (Southside Youngstown)	5	489
44509 (Westside Youngstown)	4	74
44510 (Brier Hill- Youngstown)	1	17
44511 (Cornersburg)	9	79
44512 (Boardman)	8	100
44514 (Poland)	3	30
44515 (Austintown)	5	85
44672 (Sebring)	1	15
44609 (Beloit)	0	8
44619 (Damascus)	0	0

ED Visits by Age Group



2018 Total: 804
December (n=65)

ED Visits by Gender



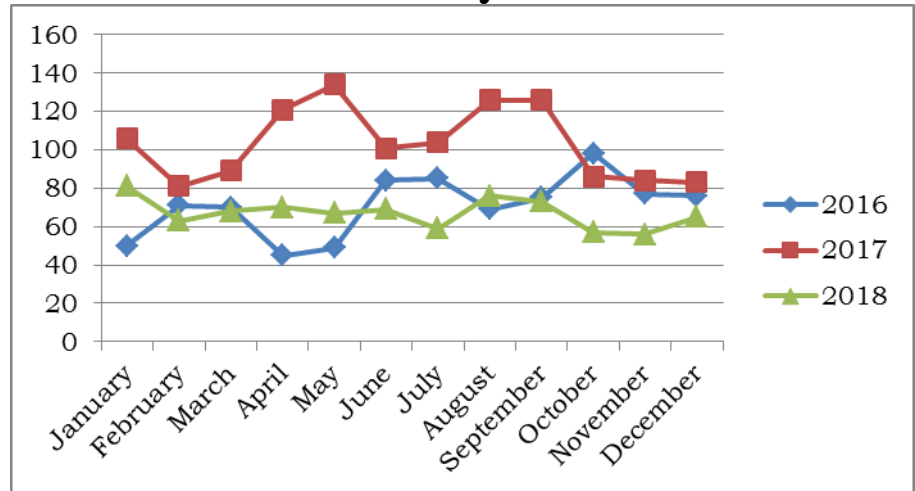
2018 Total: 804 (Female=310 and Male=494)

December (n= 65)
Female n=24, Male n=41

EMERGENCY DEPARTMENT (ED) EPICENTER DATA cont...

ED Visits by Month

ED Visits by Day of the Week		
Day of Week	December	2018 Total
Monday	9	102
Tuesday	6	120
Wednesday	10	114
Thursday	10	110
Friday	11	130
Saturday	13	125
Sunday	6	103
Total	65	804



2016 Total (n=849)
December (n=76)

2017 Total (n=1241)
December (n=83)

2018 Total (n=804)
December (n=65)

1. Drug overdose data is retrieved from Ohio's syndromic surveillance system (EpiCenter). Overdose cases include all ED visits to Mahoning County hospitals in which "drugs", "overdose", and/or "withdrawal" were indicated as the reason for visit. Cases were included in analysis if the case notes for the patient included the term "overdose", "OD", and/or "withdrawal". The following were excluded from analysis, when specified: traumatic injuries due to drugs, caused by suicide attempts, adverse reactions to normal medications, or accidental overdose of over-the-counter or common drugs such as Tylenol or insulin. Data from the EpiCenter surveillance tool is subject to at least 2 limitations. First, case notes in the EpiCenter tool are limited and often do not include full details of ED visit, such as drug used or intent of use. As such, overdose estimates will include not just opioids, but potentially any drug. Second, case notes are recorded at patient intake and may change from a patient's initial examination to their final diagnosis.

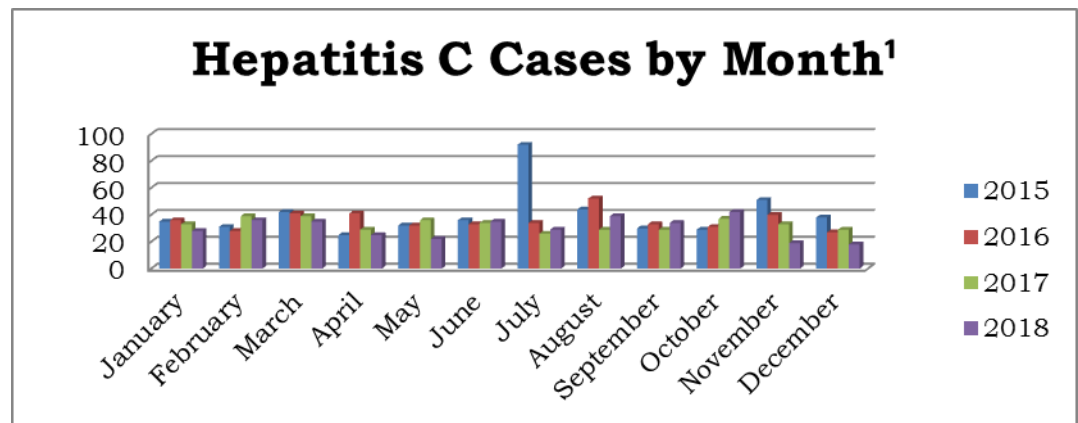
INFECTIOUS DISEASES

People who inject drugs without a clean syringe are at a risk to contract infectious diseases and other infections. This section includes data that shows the number of new positive Hepatitis C and HIV cases in Mahoning County.

HIV Cases by Month²

Month	2018
January	0
February	1
March	2
April	1
May	2
June	0
July	4
August	3
September	1
October	3
November	0
December	0
Total	17

Hepatitis C Cases by Month¹



Total 2018: 362

December 2018: 18 cases of Hepatitis C reported

Hepatitis C	2015	2016	2017	2018
Total	485	428	393	362

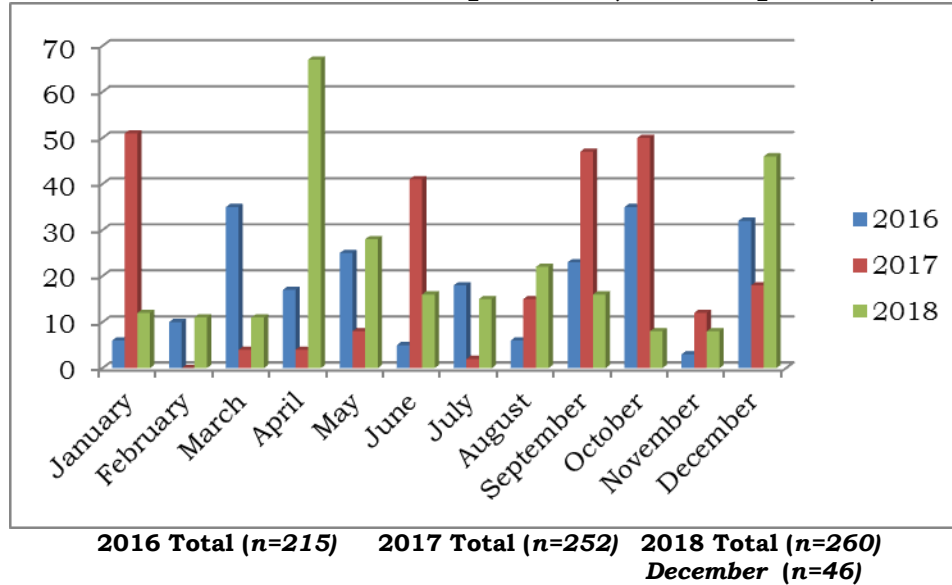
1. Hepatitis C data is retrieved from the Ohio Department of Health.
2. HIV data is provided by the Mahoning County District Board of Health.

NALOXONE

Naloxone is an opioid antagonist, which is used to reverse the effects of an opioid overdose. *Project DAWN: Deaths Avoided With Naloxone*, is a community-based Opioid Overdose Education and Naloxone Distribution Program, that is available to community members and first responders. This section includes data on Project DAWN community and first responder kits.

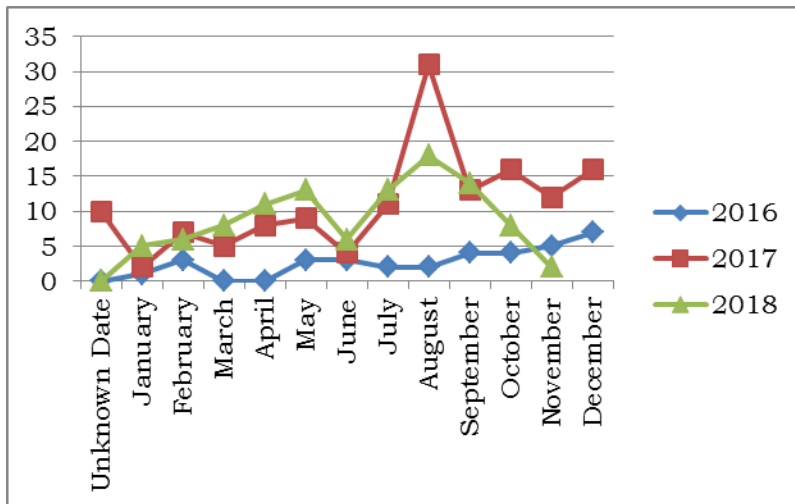
DATA FROM LAW ENFORCEMENT AGENCIES

Kits Distributed to First Responders (2 doses per kit)¹



Saves Reported by First responders^{1,2}

2016 Total (n=34) 2017 Total (n=144) 2018 Total (n=109)
December 2018(n=3)



Average Number Doses Administered at each Call ^{1,2}	
2016	1.92
2017	1.84
2018	1.50

NALOXONE cont...

DATA FROM COMMUNITY KITS

Kits Distributed to the Community

	January	February	March	April	May	June	July	August	September	October	November	December	Total
2018	15	15	7	39	3	7	11	24	27	9	22	17	196
2017	8	7	9	1	30	14	18	0	10	26	36	13	172
2016	1	1	2	3	3	2	5	0	5	1	13	8	44

1. Numbers are higher than average due to naloxone that was expiring and kits/doses needing to be replaced. Expiring naloxone was redistributed to other first responders to be used which will increase number of saves reported, and average number of doses used.
2. 2017 data is based off of when the law enforcement agencies report their saves to the MCDBOH, and should be considered preliminary findings. It is possible that more saves will be added to the final count.