



Butler County Overdose Report (2017)

Butler County General Health District





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Contact Information

Butler County General Health District
Address: 301 S. Third Street, Hamilton, OH 45011
Phone: (513) 863-1770
Website: www.butlercountyohio.org/health

Any questions about the data may be directed to:
Jonathan Yang, MPH MS, Epidemiologist
yangj@butlercountyohio.org

Butler County Overdose Deaths

- From 2012 to 2017, Butler County observed a **125% increase** in annual overdose deaths.

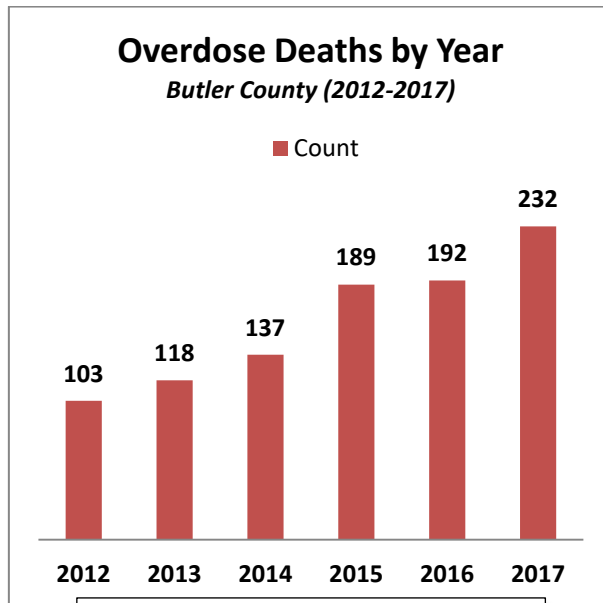


Figure 2.1 Overdose Death Counts by Year (2012-2017)

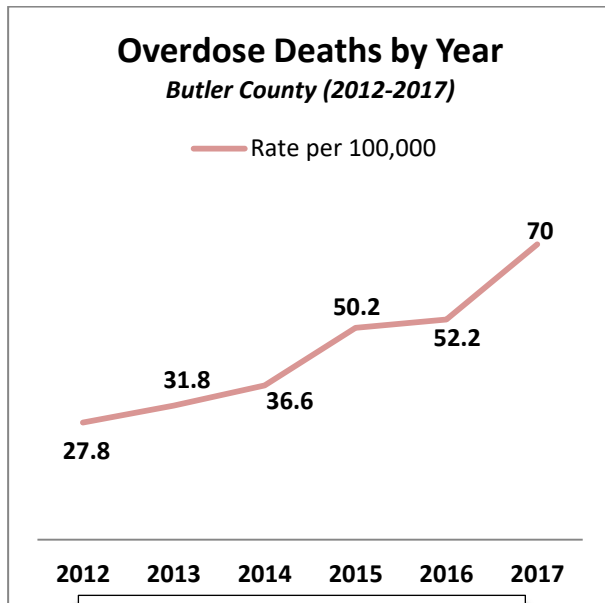


Figure 2.1 Overdose Death Rates by Year (2012-2017)

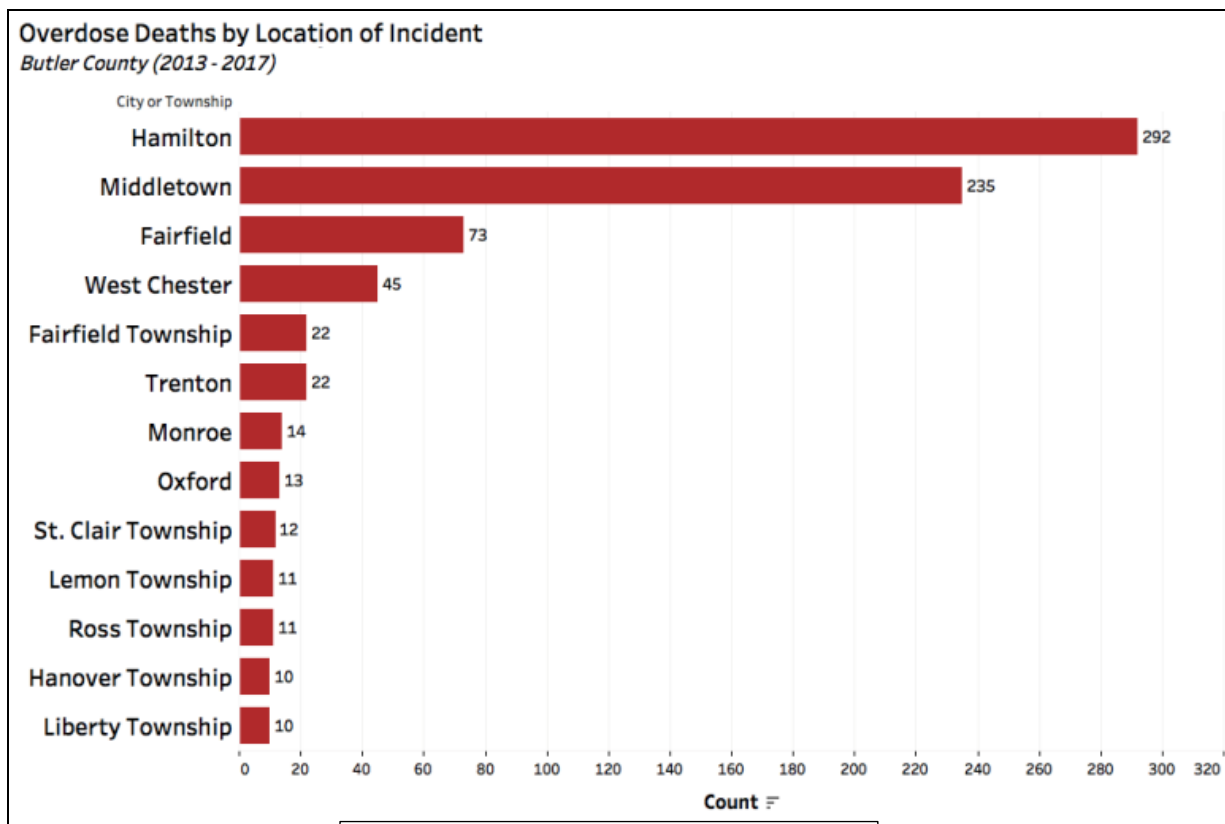
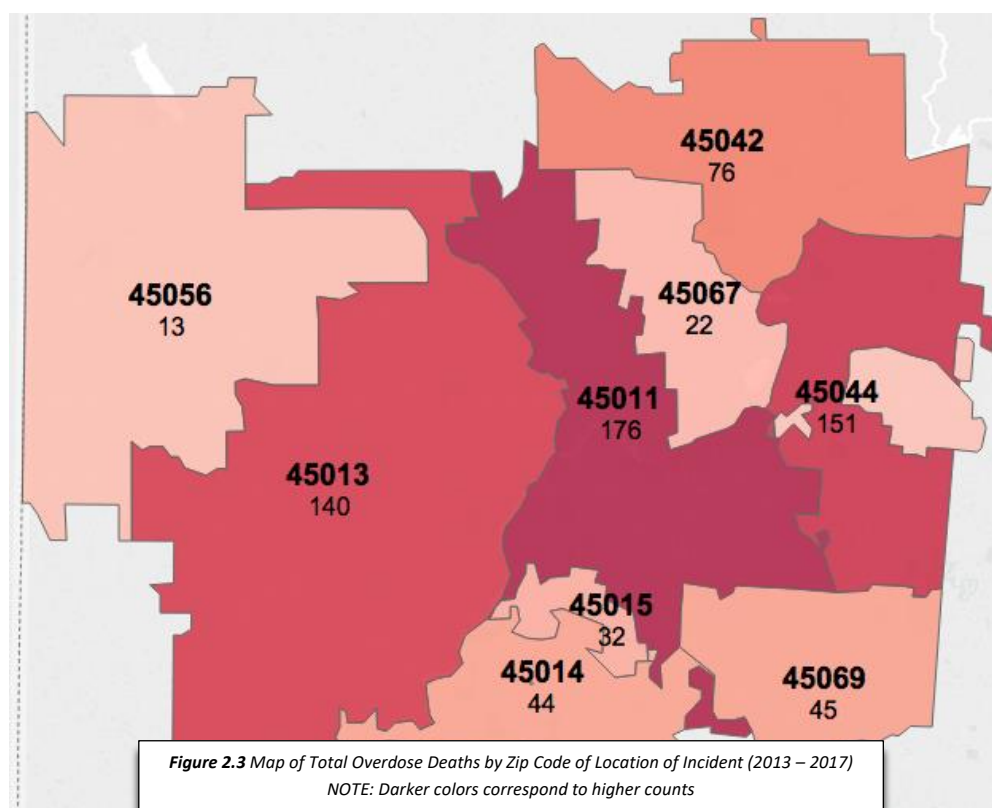


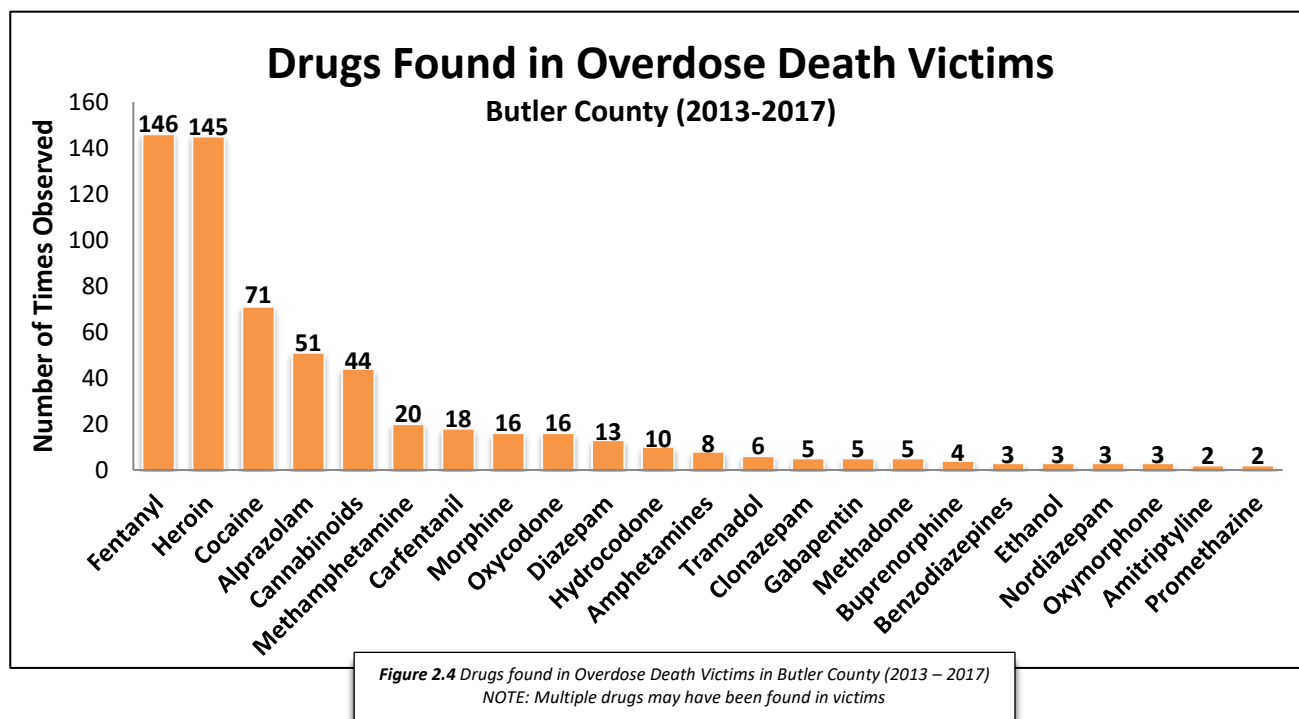
Figure 2.3 Overdose Deaths by Location of Incident (2013 - 2017)

NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Some limitations to the data include completeness and timeliness of reporting and case counts and rates varying over time based on new information. Death data presented do not include Atrium data and will differ from the data published by the Ohio Department of Health. Data accessed via the Butler County Coroner's office on 3/15/2018.

Butler County Overdose Deaths (continued)



Drugs Found in Butler County Overdose Deaths



NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Some limitations to the data include completeness and timeliness of reporting and case counts and rates varying over time based on new information. Death data presented do not include Atrium data and will differ from the data published by the Ohio Department of Health. Data accessed via the Butler County Coroner's office on 3/15/2018.

Butler County Drug-Related ER Visits

- Butler County in 2017 reported, on average, 10 Drug-Related ER Visits, daily.
- 6 in 10 Drug-Related ER visit patients were male.

Table 1. Drug-Related ER Visits by Home Address Zip Codes of Patients (2017)

City	Zip Codes	# of Cases	Rate per 100,000
Hamilton	45011, 45013	1414	2263.2
Middletown	45042, 45043, 45044	1115	2289.8
Fairfield	45014, 45015, 45018	415	976.2
West Chester	45069	202	403.2
Trenton	45067	155	1214.5
Oxford	45056	65	235.2
Monroe	45050	46	369.7

Table 2. *Drug-Related ER Visits by Hospital (2017)

Hospital	# of Cases
1) Atrium Medical Center (Middletown, Ohio)	1082
2) Fort Hamilton Hospital (Hamilton, Ohio)	999
3) Bethesda North Hospital (Montgomery, Ohio)	334
4) West Chester Hospital (West Chester, Ohio)	232
5) Bethesda Butler Hospital (Hamilton, Ohio)	216
6) Mercy Fairfield (Fairfield, Ohio)	186

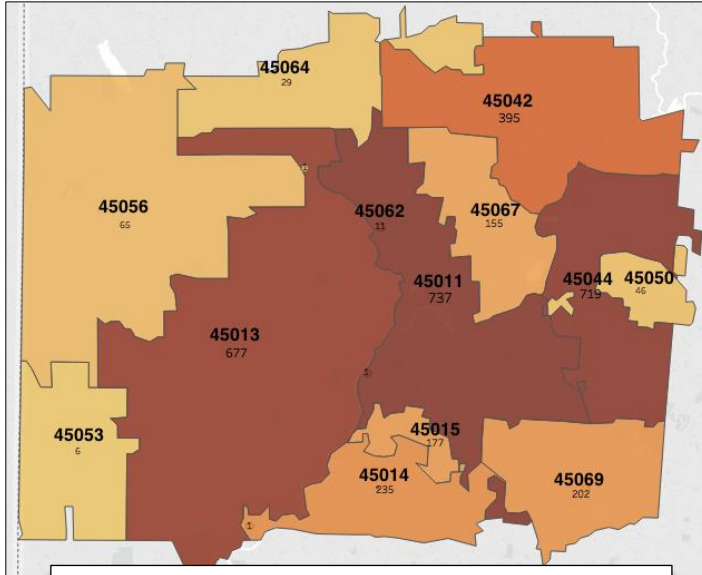


Figure 1.1 Map of Drug-Related ER Visits in Butler County by Zip Code (2017)
NOTE: Darker colors correspond to higher counts

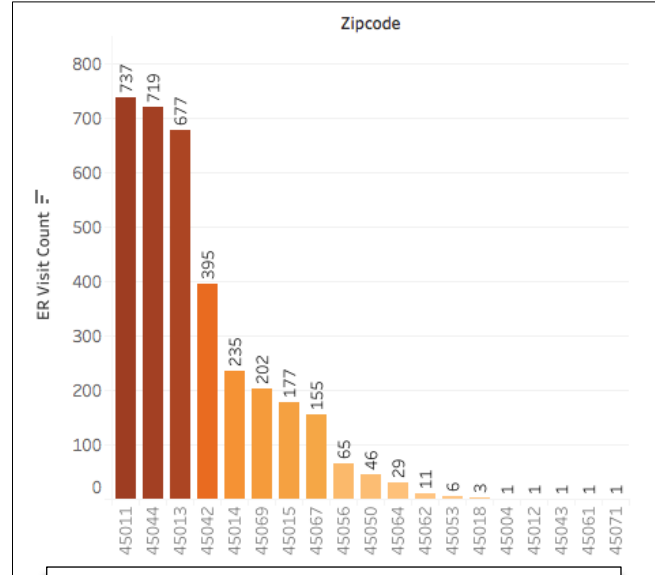


Figure 1.2 Drug-Related ER Visits in Butler County by Zip Code (2017)
NOTE: Darker colors correspond to higher counts

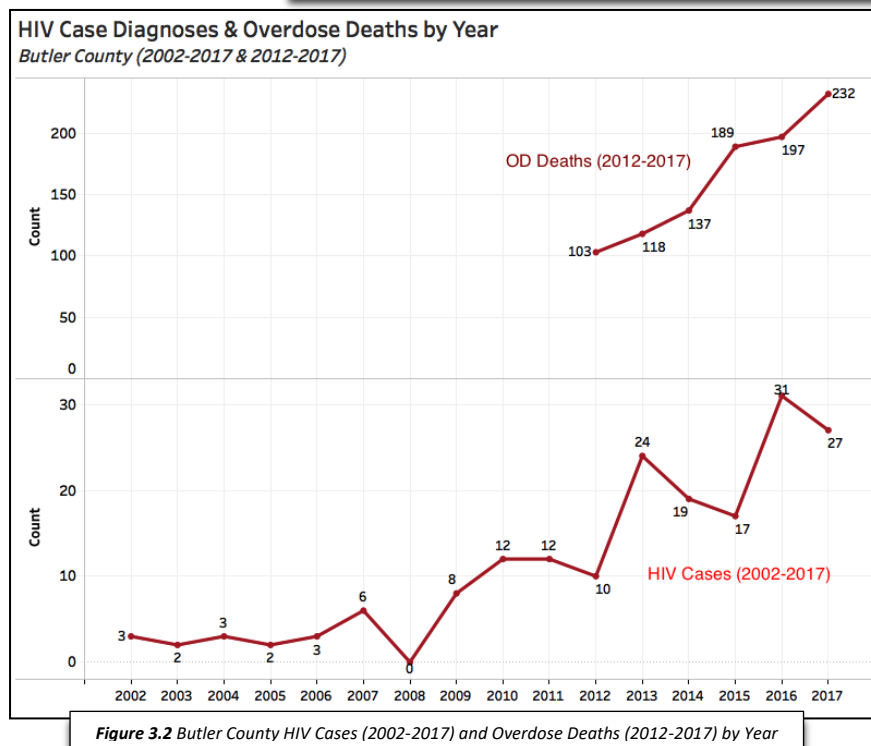
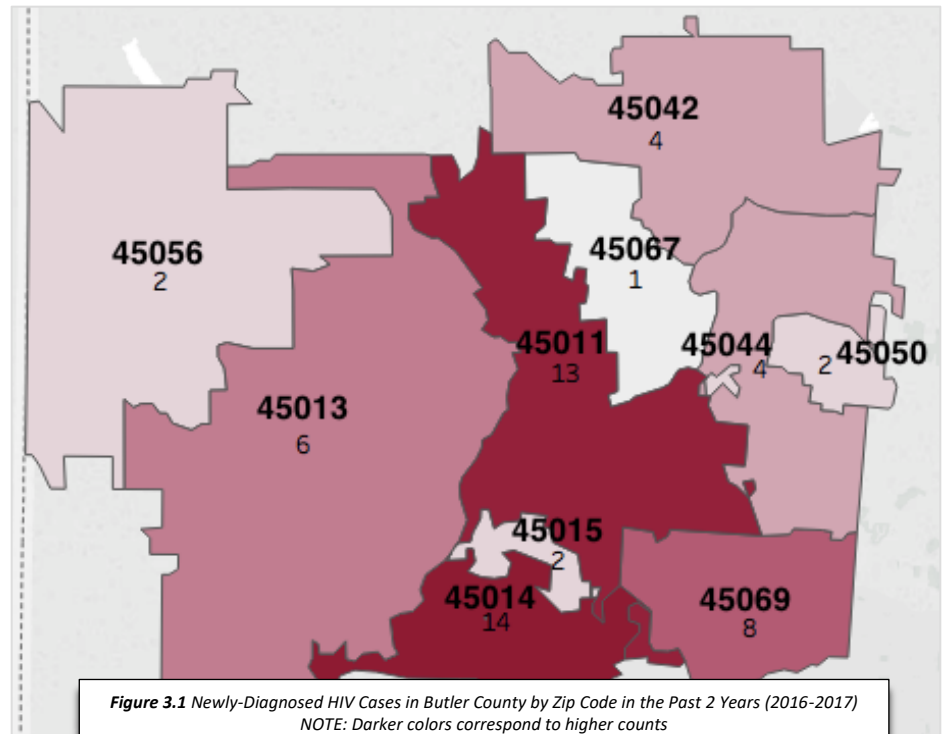
NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Some limitations to the data include completeness and timeliness of reporting to the jurisdictions as well as case counts and rates varying over time based on changes in public and provider awareness, changes in laboratory and diagnostic techniques, and changes in the definition of conditions. *Includes all patient visits to respective hospitals in 2017. Data accessed from EpiCenter on 2/15/2018.

Butler County HIV

- From 2002-2017, there's been an **800% increase** in annual newly-diagnosed HIV cases in Butler County.
- Young adults in the "millennial" subgroup (ages 18-34) have the highest risk of contracting HIV in Butler County.
- Roughly 3 in 4 Butler County cases were male.

Table 3. Butler County Newly-Diagnosed HIV (2016-2017)

City	Zip Codes	# of New Cases
Hamilton	45011, 45013	19
Fairfield	45014, 45015	16
Middletown	45042, 45044, 45050	10
West Chester	45069	8
Oxford	45056	2
Trenton	45067	1



NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Some limitations to the data include completeness and timeliness of reporting to the jurisdictions as well as case counts and rates varying over time based on changes in public and provider awareness, changes in laboratory and diagnostic techniques, and changes in the definition of conditions. Data accessed by Dayton/Montgomery Health Department via ODRS on 4/30/2018.

Butler County Hepatitis C

- From 2002-2017, there's been a **300% increase** in annual newly-diagnosed Hepatitis C cases in Butler County.

Table 4. Butler County Newly-Diagnosed Hepatitis C (2013-2017)

City	Zip Codes	# of New Cases
Hamilton	45011, 45012, 45013	1383
Middletown	45042, 45044	822
Fairfield	45014, 45015	476
West Chester	45069	146
Trenton	45067	134
Oxford	45056	91

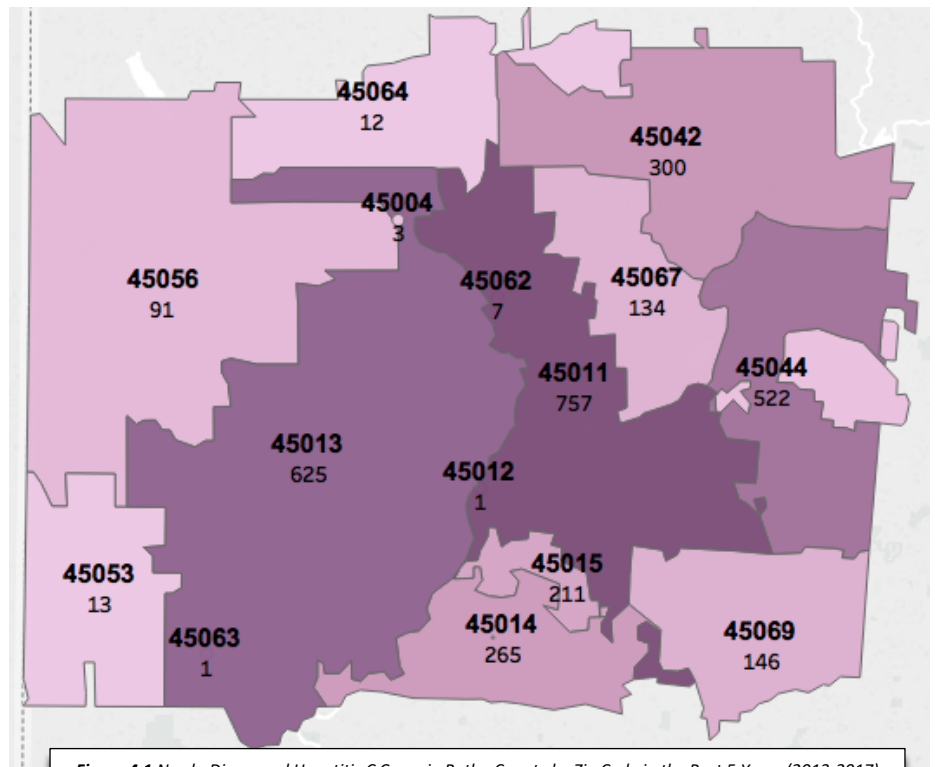


Figure 4.1 Newly-Diagnosed Hepatitis C Cases in Butler County by Zip Code in the Past 5 Years (2013-2017)
NOTE: Darker colors correspond to higher counts

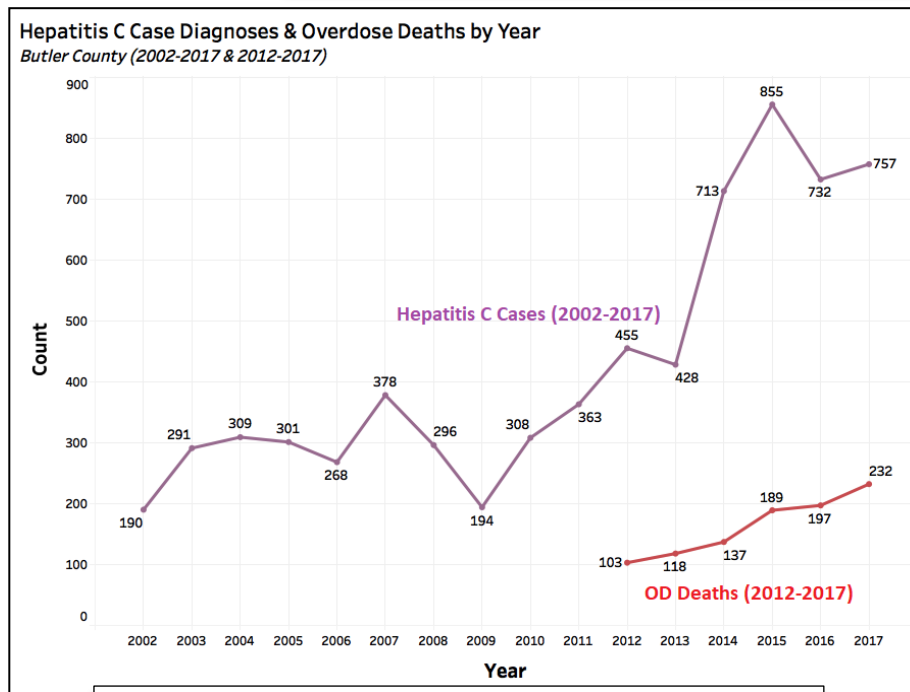


Figure 4.2 Butler County Hepatitis C Cases (2002-2017) and OD Deaths (2012-2017) by Year

NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Some limitations to the data include completeness and timeliness of reporting to the jurisdictions as well as case counts and rates varying over time based on changes in public and provider awareness, changes in laboratory and diagnostic techniques, and changes in the definition of conditions. Data accessed via ODRS on 4/15/2018.

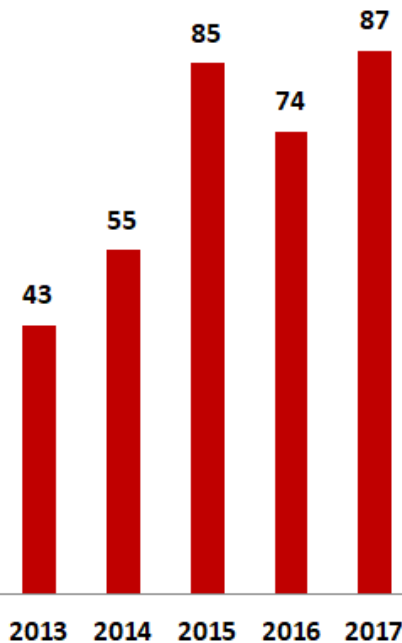
City Specific Overdose Deaths Report

Hamilton (2013-2017)

- From 2013-2017, there's been a **101.6% increase** in observed annual rates of overdose deaths among Hamilton residents.

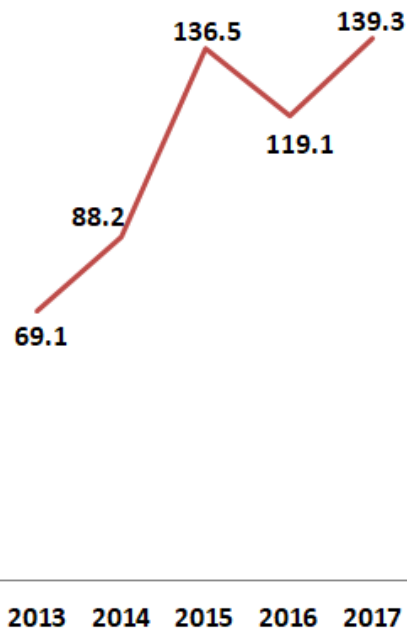
Overdose Death Counts by Year, Hamilton Residents

■ Count



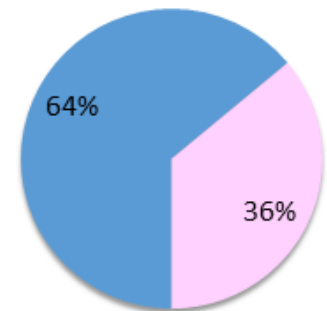
Overdose Death Rates by Year, Hamilton Residents

— Rate per 100,000

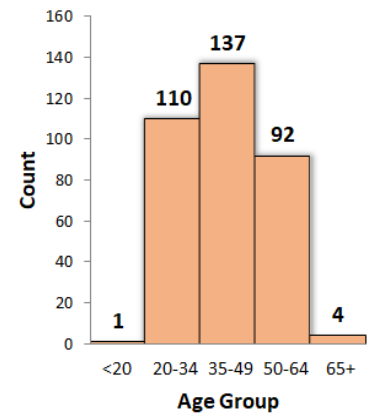


Gender

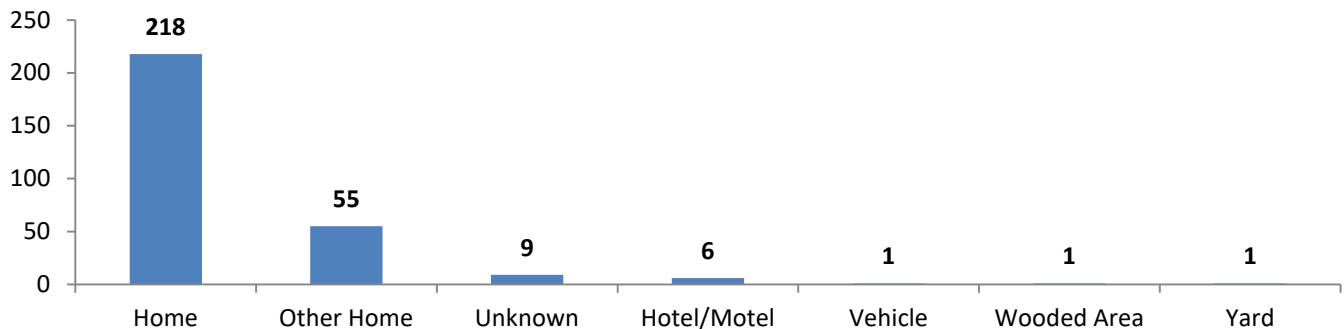
■ Male ■ Female



Age Distribution



Overdose Deaths that Occurred in Hamilton by Incident Setting

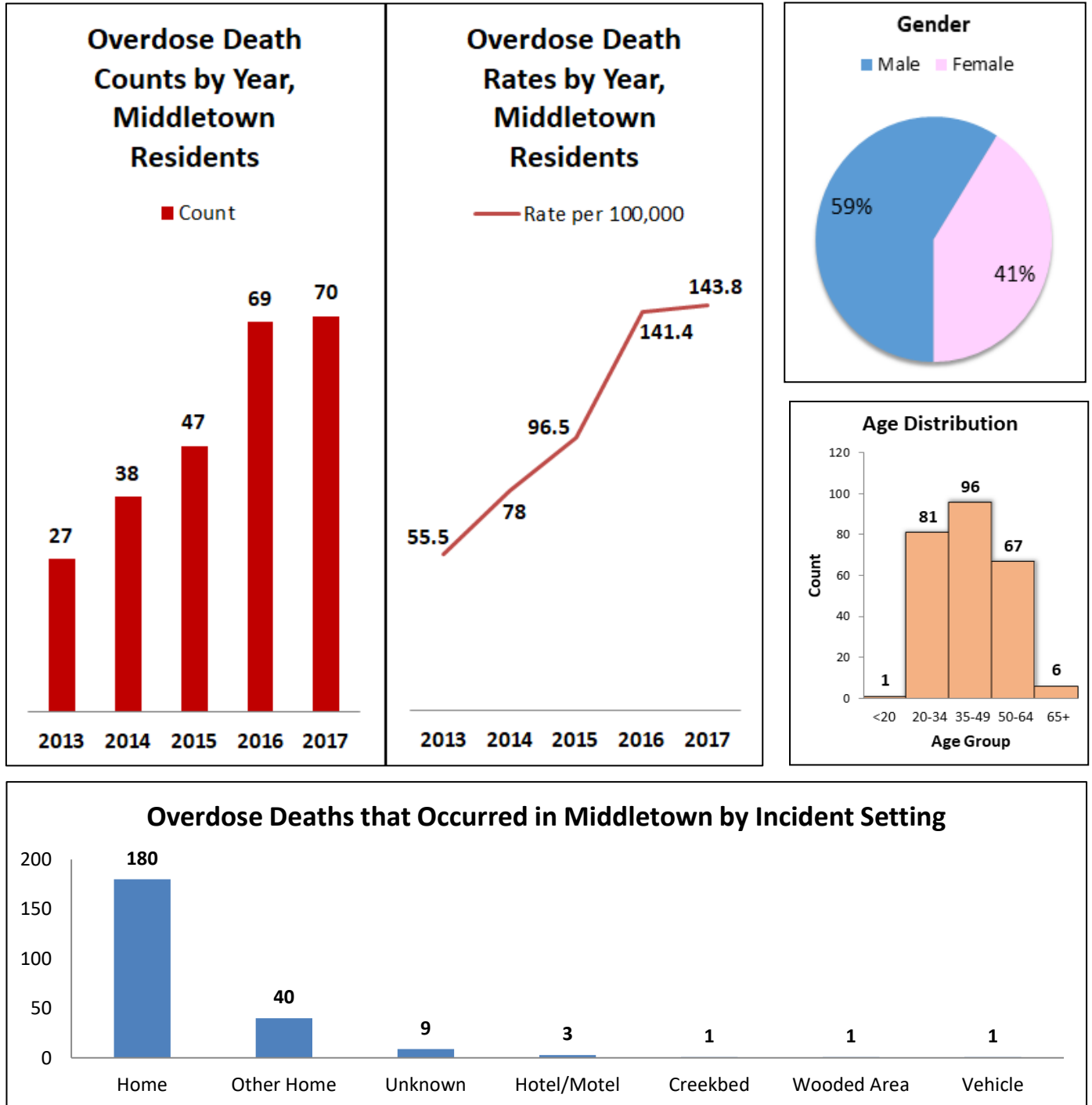


NOTES: Data are provisional and cumulative counts of cases presented in graphics can increase or decrease as additional information becomes available and counts are updated. Resident demographic information pertains to persons whose last known residence was within the city's jurisdiction. Incident Setting refers to the last known categorized setting where an overdose incident leading to death occurred within the respective city's jurisdiction, and may include people who are not residents of the city. Data accessed via the Butler County Coroner's Office on 4/30/2018.

City Specific Overdose Deaths Report

Middletown (2013-2017)

- From 2013-2017, there's been a **159.1% increase** in observed annual rates of overdose deaths among Middletown residents.



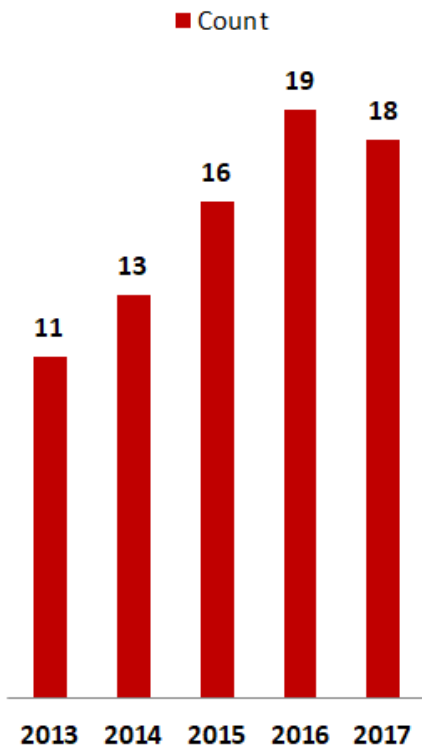
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City Specific Overdose Deaths Report

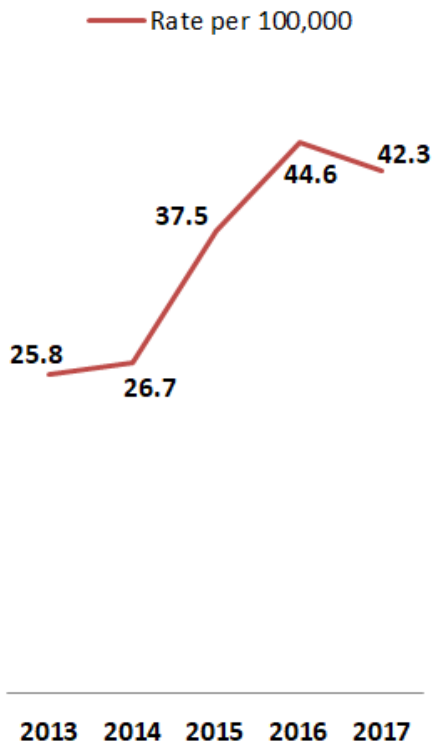
Fairfield (2013-2017)

- From 2013-2017, there's been a **64.0% increase** in observed annual rates of overdose deaths among Fairfield residents.

Overdose Death Counts by Year, Fairfield Residents

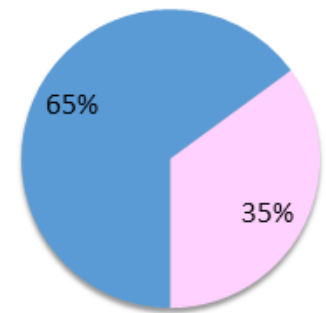


Overdose Death Rates by Year, Fairfield Residents

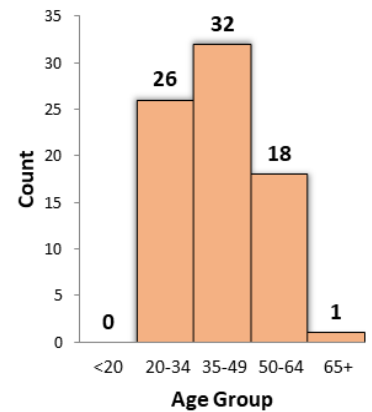


Gender

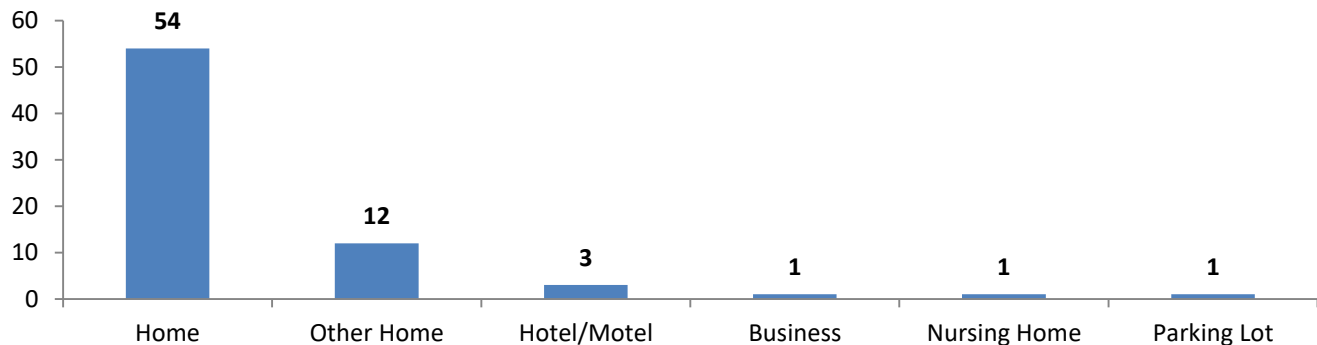
Male Female



Age Distribution



Overdose Deaths that Occurred in Fairfield by Incident Setting



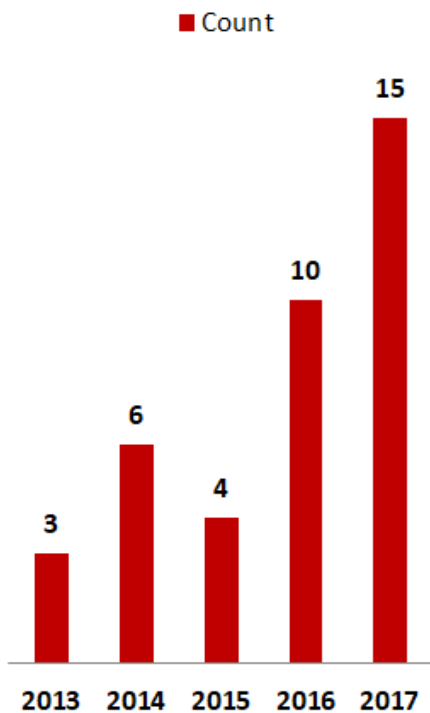
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City Specific Overdose Deaths Report

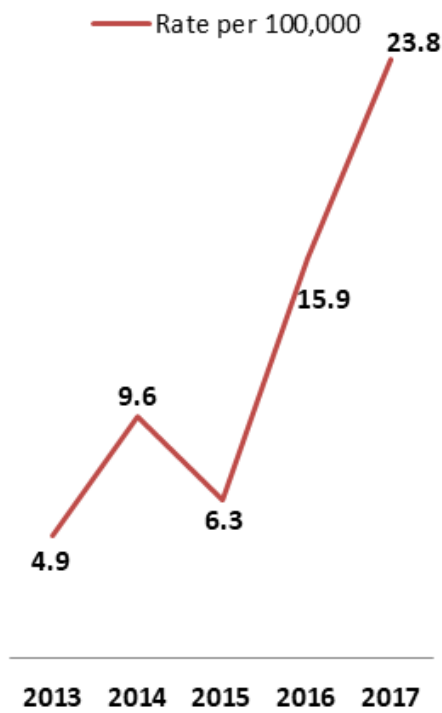
West Chester Township (2013-2017)

- From 2013-2017, there's been a **385.7% increase** in observed annual rates of overdose deaths among West Chester Township residents.

Overdose Death Counts by Year, West Chester Township Residents

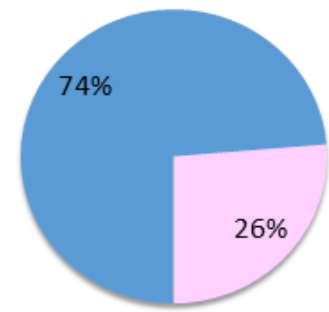


Overdose Death Rates by Year, West Chester Township Residents

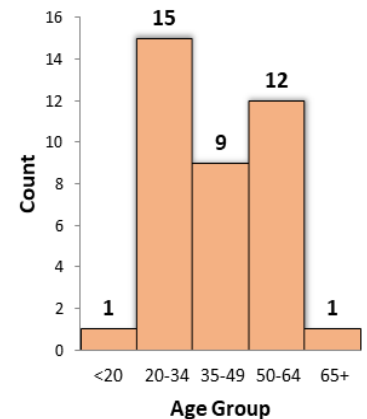


Gender

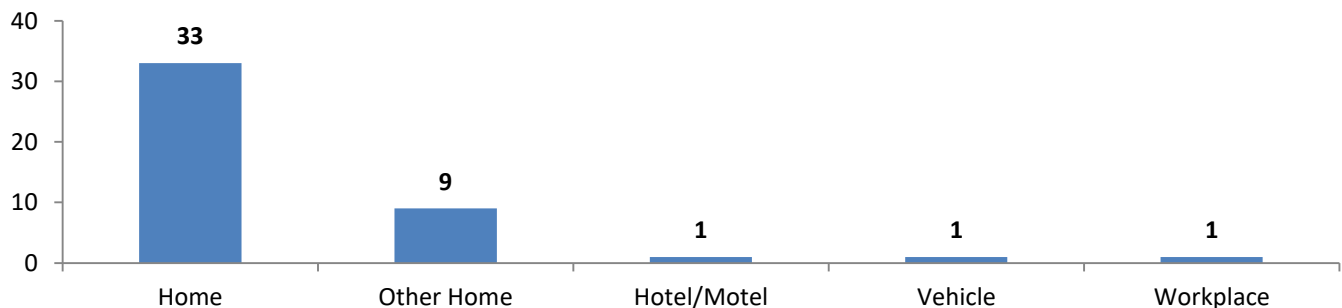
Male Female



Age Distribution



Overdose Deaths that Occurred in West Chester Township by Incident Setting

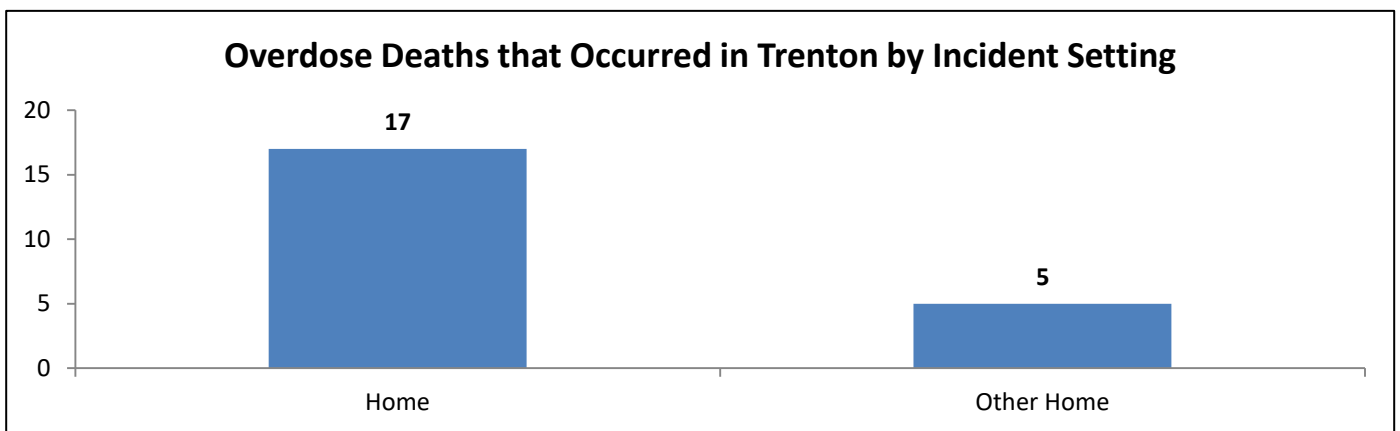
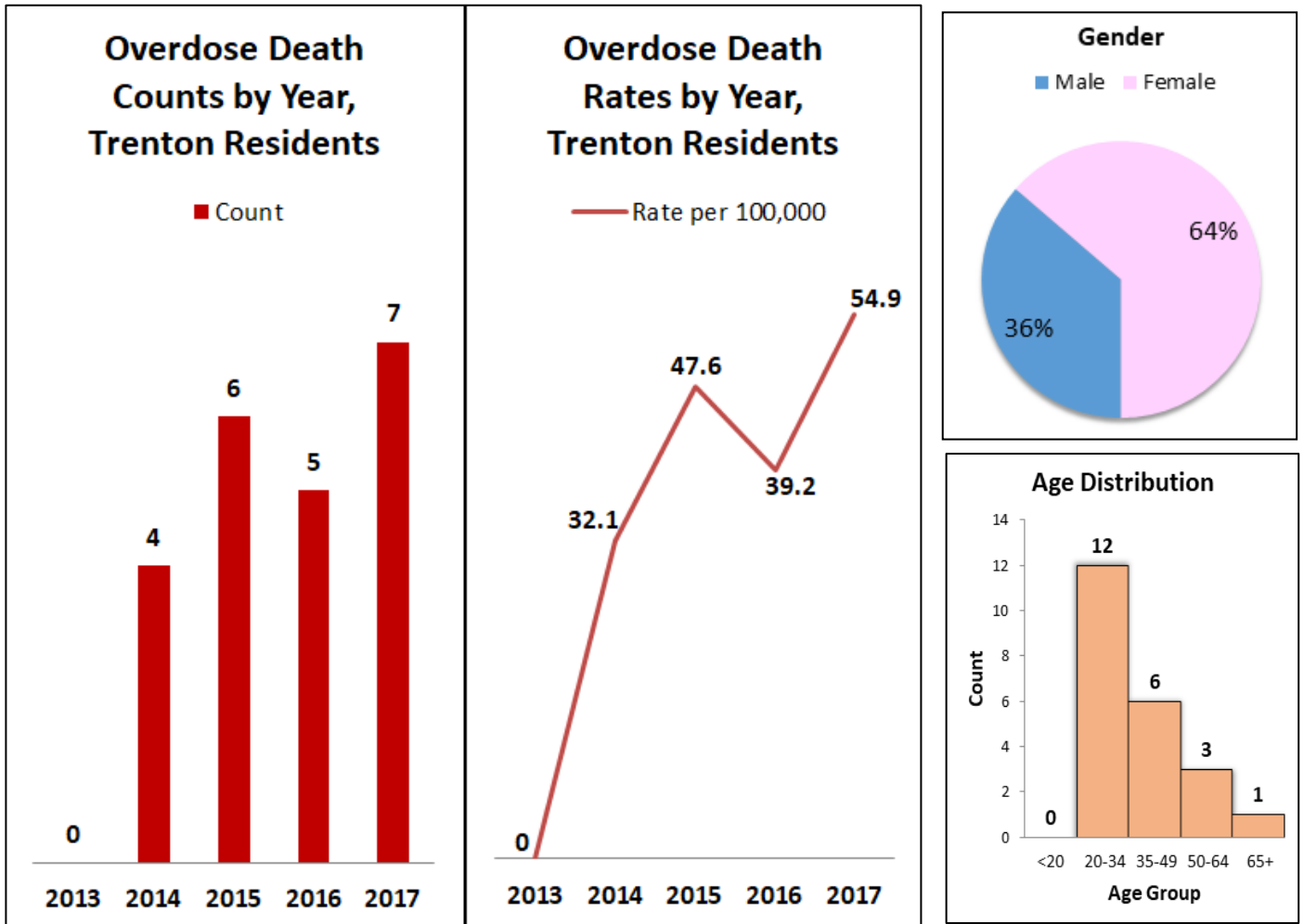


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City Specific Overdose Deaths Report

Trenton (2013-2017)

- From 2014-2017, there's been a **71.0% increase** in observed annual rates of overdose deaths among Trenton residents.

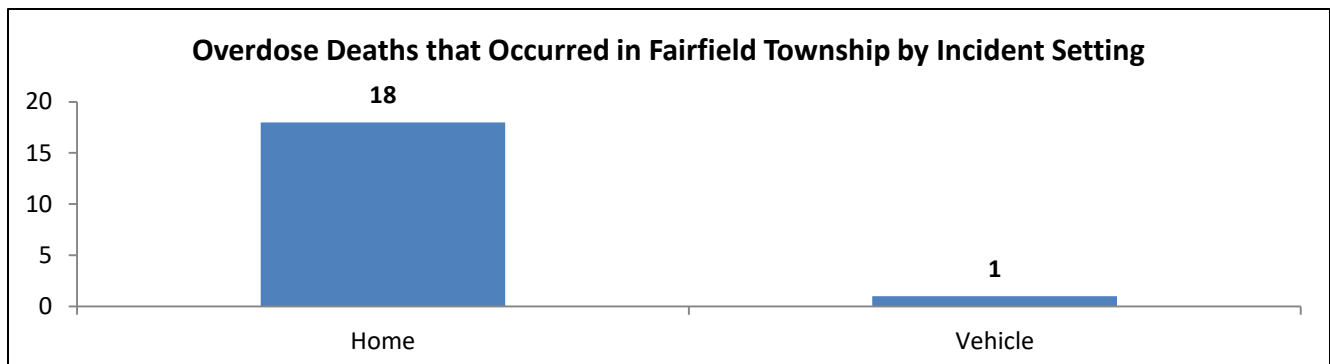
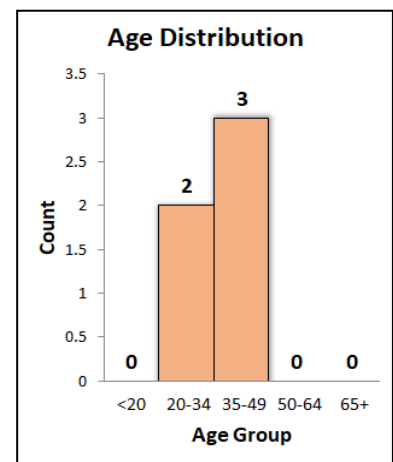
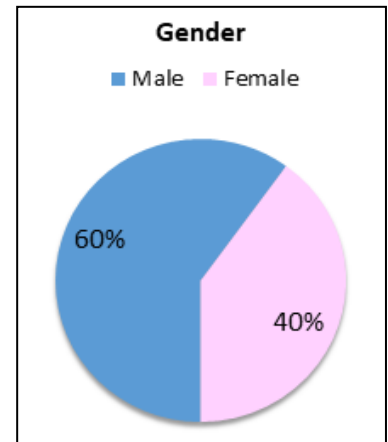
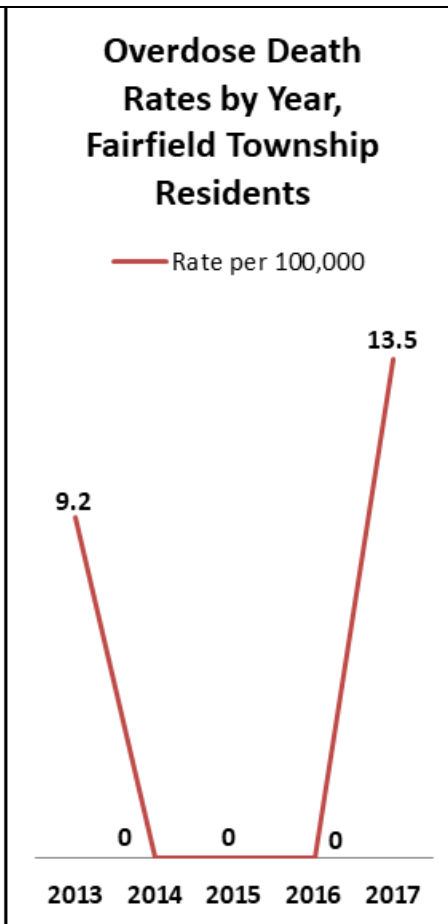
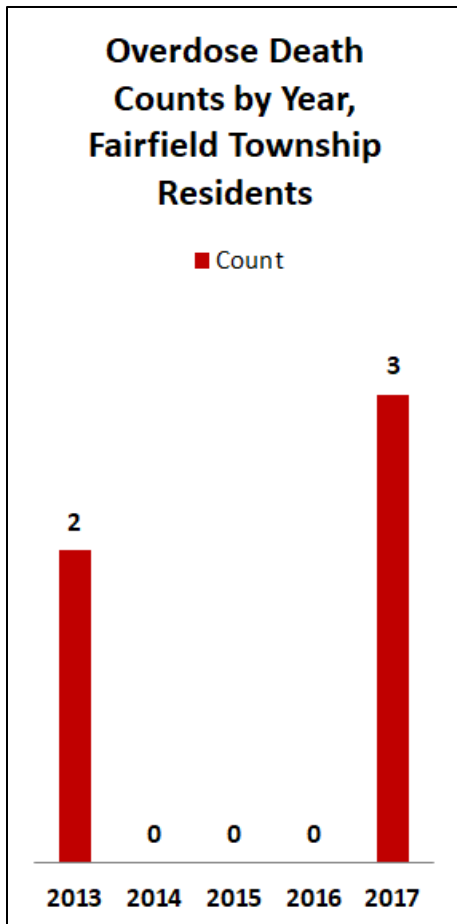


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City Specific Overdose Deaths Report

Fairfield Township (2013-2017)

- From the year 2013 to the year 2017, there's been an overall change of a **46.7% increase** in observed annual rates of overdose deaths among Fairfield Township residents. However, from 2014-2016, there were no overdoses recorded among Fairfield Township residents.

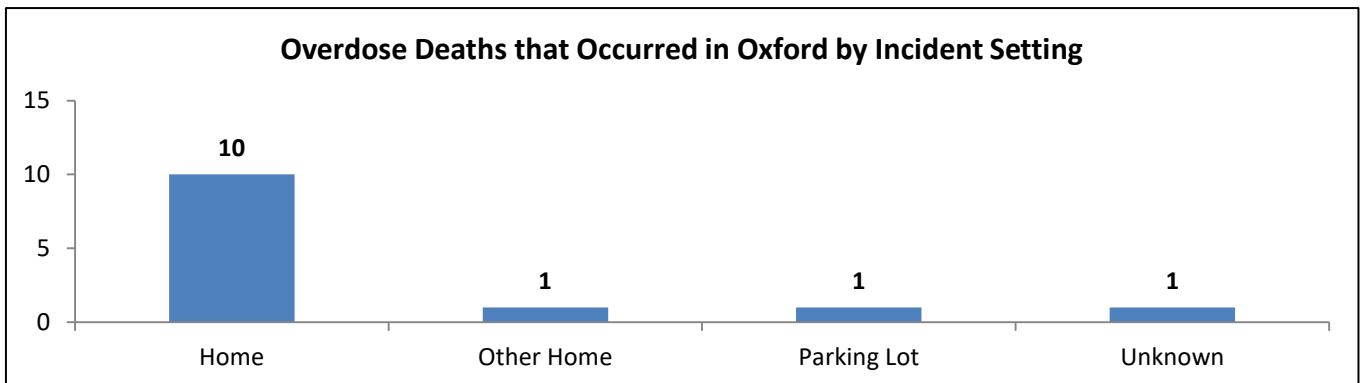
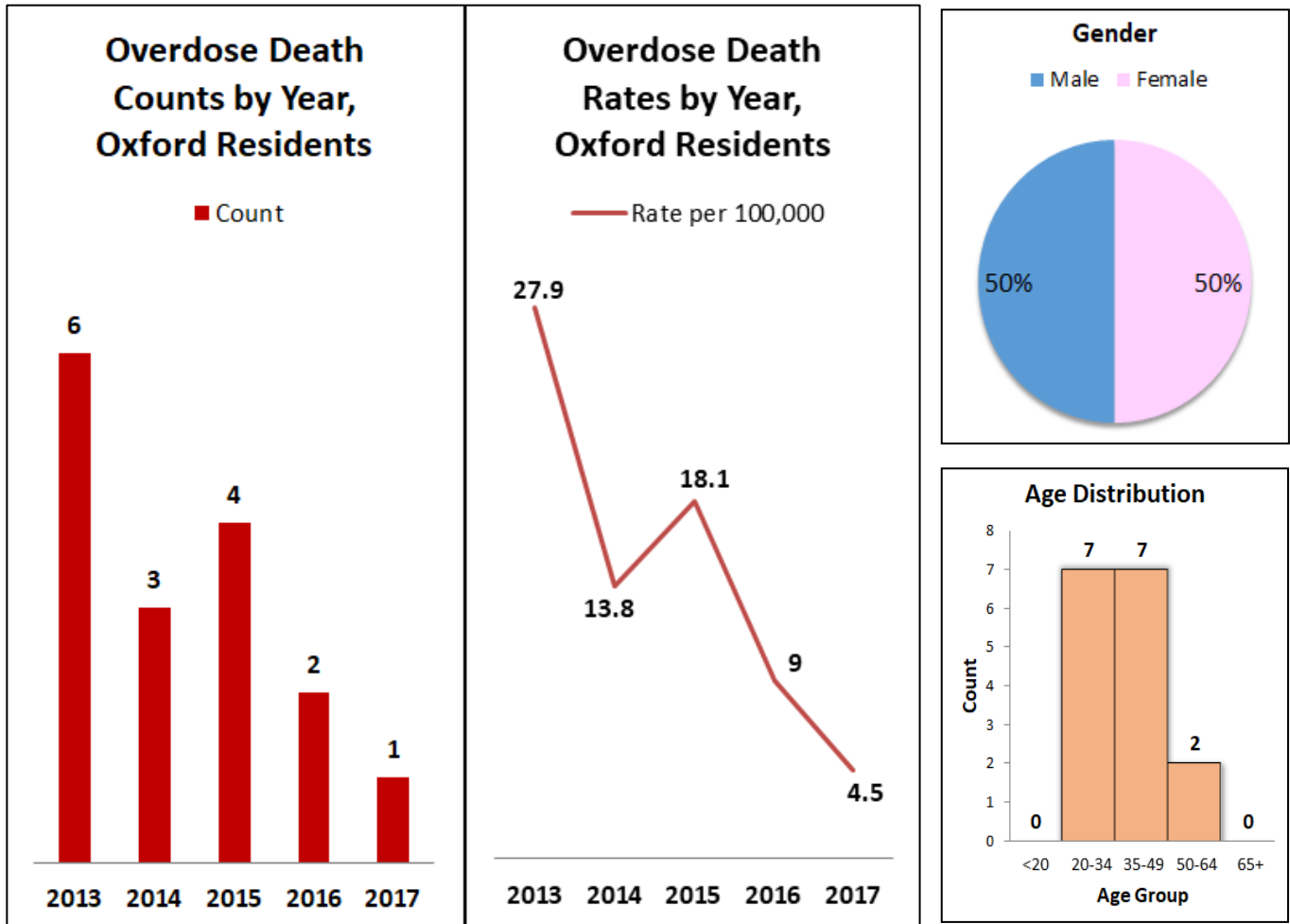


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City Specific Overdose Deaths Report

Oxford (2013-2017)

- From 2013-2017, there's been an **83.9% decrease** in observed annual rates of overdose deaths among Oxford residents.

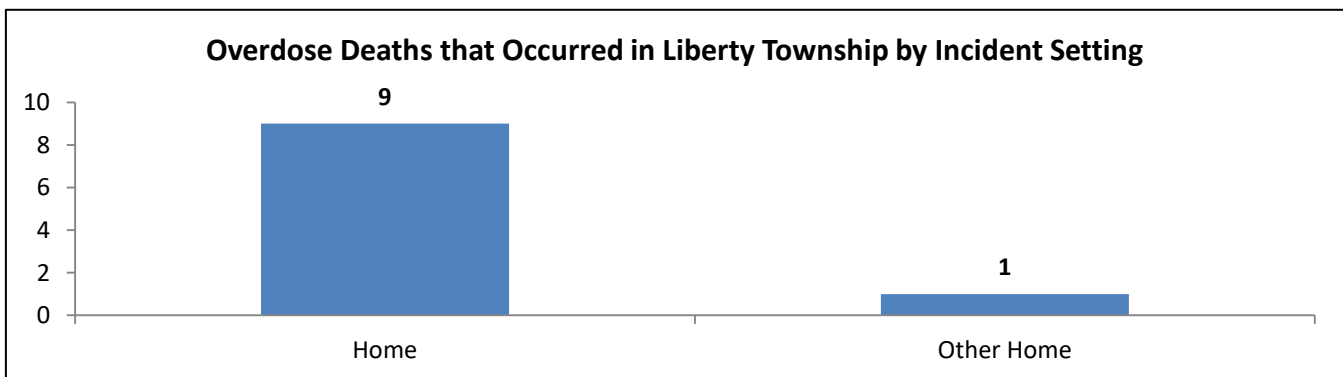
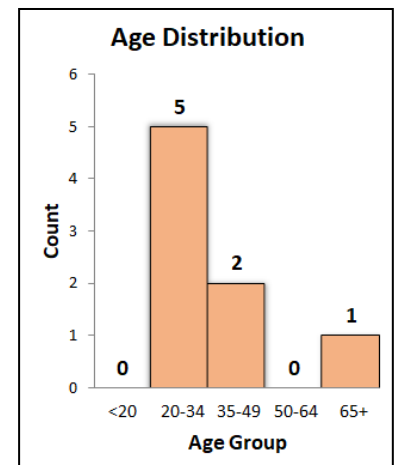
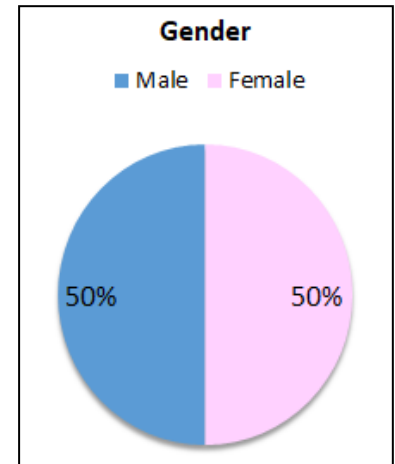
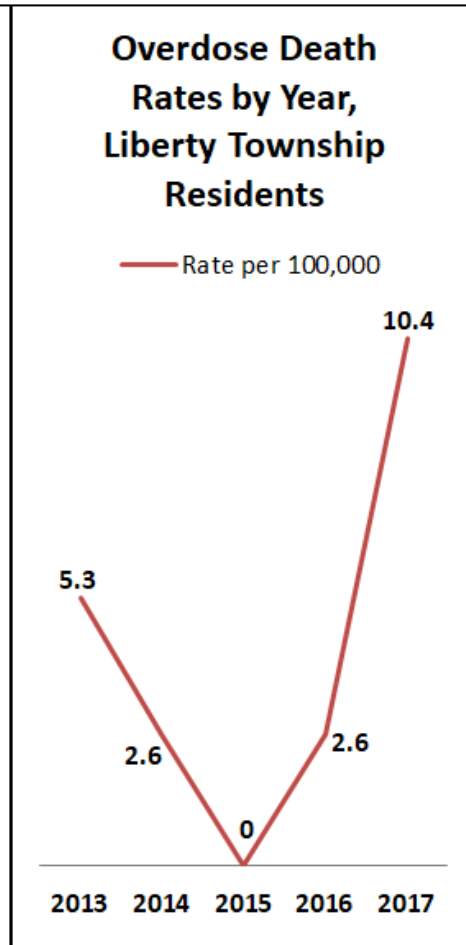
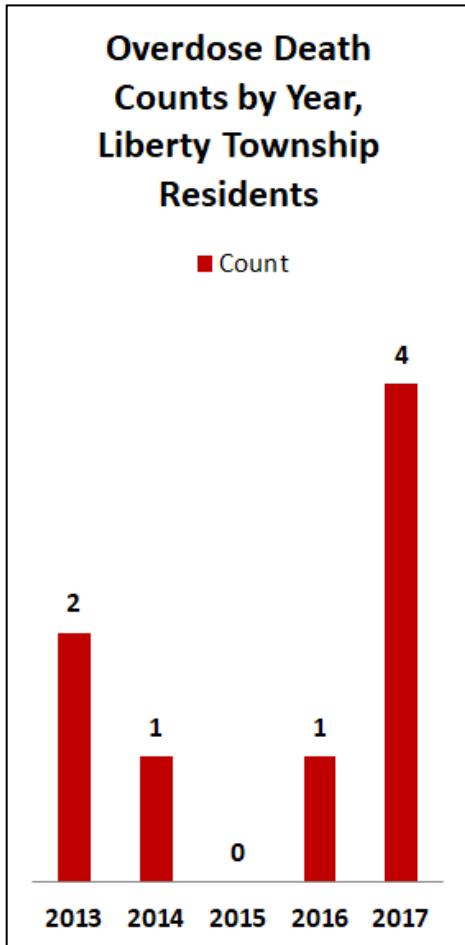


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City Specific Overdose Deaths Report

Liberty Township (2013-2017)

- From the year 2013 and the year 2017, there's been an overall change of a **96.2% increase** in observed annual rates of overdose deaths among Liberty Township residents.
- From 2013 to 2015, rates of overdose deaths diminished, but between the years 2016 and 2017, a **300% increase** in overdose deaths was observed.



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Butler County Community Response to the Opioid Epidemic

Daily Updates from Butler County Overdose Alerting Network. Interactive website:

<https://tiny.cc/ButCoDailyOD>

- Developed by Butler County Health Department, Hamilton County Public Health, and community partners, this website is updated daily for timely data access. Describes: Number of 911 calls/EMS runs for overdoses, number of coroner deaths due to overdoses, number of visits to emergency rooms for overdoses, general locations, demographics, various time periods, more. This website is available to the treating, responding or planning sectors, as well as the public. It allows up to date assessments of overdose related activity around the county so that steps can be taken quickly to respond. Check the site daily.

2017 Overdose Data from Butler County Coroner's Office. Searchable, interactive website:

http://dataviz.miamioh.edu/Butler_County_Overdose_Deaths/

- With data from, and in consultation with the Butler County Coroner's Office, students at Miami University designed the Opioid Deaths in Butler County App which documents select details about overdose deaths between 2012 and 2017. These details include the drugs found in overdose victims along with their gender, race, and age, as well as where the overdoses and deaths occurred. The app is intended to make it easier for law enforcement agencies, emergency responders, and care providers to access the data they need to target prevention and treatment efforts.

Opioid Task Forces exist in several areas of Butler County:

- Butler County Opiate Task Force
- Fairfield Opiate Task Force
- Middletown Heroin Summit

Coalitions in Butler County for Healthy, Safe, Drug Free Communities:

- Coalition for a Healthy Oxford
- Butler County Coalition
- Fairfield Prevention Coalition
- Healthy Hamilton
- Middletown Drug Free Coalition

Quick Response Teams/Rapid Response Teams:

- Teams visit people who have recently experienced a drug overdose to share resources and make referrals to treatment. We have six QRT teams with two additional teams developing. Teams are in Butler County, Hamilton, Middletown, Fairfield, Fairfield Township, and Oxford. New teams are being discussed in West Chester and Monroe.
- Of 1811 people contacted, 678 went into treatment.

Narcan (naloxone) Distribution, Butler County:

- Project DAWN (Death Avoided With Naloxone) is available from the Butler County Health Department. Free Narcan kits are made available from the Ohio Dept. of Health and distributed to any member of the public and to first responders at no charge.

	2016	2017	2018 Jan-April	Total
Narcan, Project DAWN kits to the public	14	277	186	477
Narcan to First Responders	470	804	60	1334
Narcan to QRT Teams	n/a	n/a	30	30
Total Narcan distributed by source	484	1081	276	1841

Disease Testing via mobile van at Butler County Health Department:

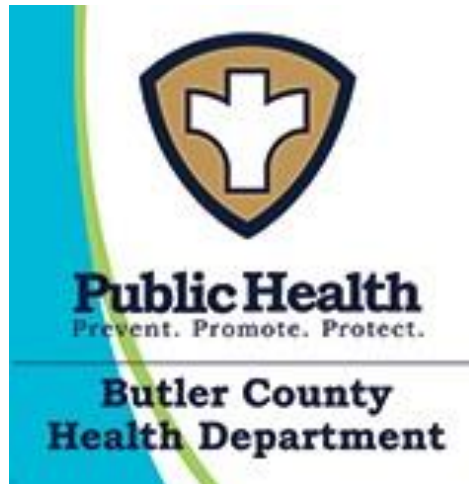
HIV Testing, 2017		HIV Testing, Jan – Apr., 2018
Total tests	128	24
Total positives	0	0
% reporting IV drug use	52%	58%
Hep C Testing, 2017		Hep C Testing, Jan – Apr., 2018
Total tests	17	13
Total positives	11	7
% reporting IV drug use	100%	100%

Middletown Bloodborne Pathogen Prevention Program:

- The Exchange Project (from Hamilton County Public Health via mobile van) provides intravenous drug users with clean needles and syringes to decrease the risk of blood borne infectious disease acquisition and transmission. The Exchange Project provides needles and syringes, supplies for safe IV drug usage (alcohol wipes, tourniquets, cotton, and cookers), free Narcan and education on its usage, free personal hygiene products, at-home pregnancy tests, and free Hepatitis C and HIV testing. There is also information available on seeking medical and addiction treatment. The Exchange Project travels to Middletown every Tuesday and operates from 1:00pm-4:00pm. There has been approximately a 2% increase in new visits and return visits each month since starting in January. The average amount of needles and syringes exchanged each month is approximately 6,753. There have been 3 positive Hepatitis C results and 0 positive HIV results. The average amount of at-home pregnancy tests given out is 14 per month. The Middletown numbers continue to grow every week and we are seeing more and more people utilize the services of The Exchange Project.
- Additional site being explored in the Fairfield area.

Middletown Exchange TOTALS (YTD) 1/16/2018-4/24/2018	
Visits	477
New Visits	69
Syringes Exchanged	27,010
Narcan (doses)	560
Hep C Testing	10
HIV Testing	11
Pregnancy Testing**	56
Treatment Referral	13
Medical Referral	1
Other Referral	0

References



Data Sources:

- Butler County Drug-Related ER Visit Data – EpiCenter
- Overdose Deaths Data – Butler County Coroner’s Office and : http://dataviz.miamioh.edu/Butler_County_Opioid_Deaths/
- HIV Data (1995-2017) – Dayton/Montgomery County Health Department / Ohio Disease Reporting System
- Hepatitis C Data (2002-2017) – Butler County Health Department / Ohio Disease Reporting System
- Other: Centers for Disease Control and Prevention (CDC), U.S. Census Bureau, Ohio Department of Health (ODH)
- Woltmann, Jon, et al. “Demographics of Hepatitis C in Southwest Ohio (2010 to 2015).” Hepatitis Monthly, Kowsar, Aug. 2016, www.ncbi.nlm.nih.gov/pmc/articles/PMC5075223/.
- Zip Code Population Information – American Fact Finder: <https://factfinder.census.gov>

This work is funded either in whole or in part by a grant awarded by the Ohio Department of Health, Office of Health Preparedness, Public Health Emergency Preparedness (PHEP) and as a sub-award of a grant issued by Centers for Disease Control and Prevention (CDC) under the Hospital Preparedness Program (HPP) and PHEP Cooperative Agreements CDC-RFA-TP12-1201, and CFDA number 93.074.