## Welcome



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## HCPH Overdose Surveillance

AOHC Opioid Special Meeting - January 31, 2018

Craig Davidson, Assistant Health Commissioner



PREVENT. PROMOTE. PROTECT.

## HCPH Overdose Surveillance

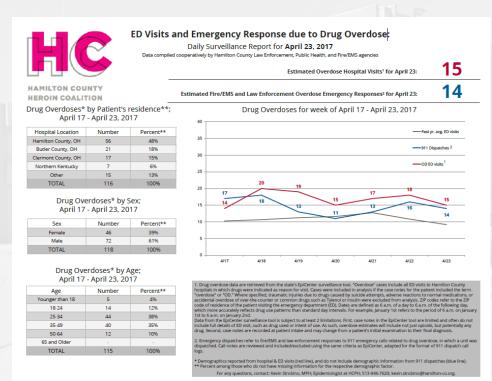
I. Daily Overdose Reporting

II. Monthly Overdose Reporting

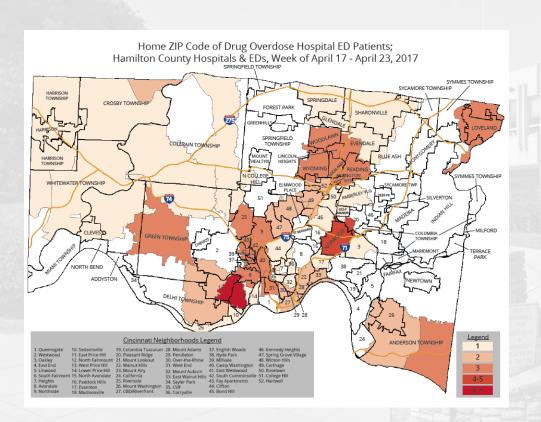
III. Public Health Alert Protocol



- Daily pdf reports
- Began September 2016
- Running daily total of ED visits, 911 dispatches







- Basic demographics
- ZIP code map



• Overdose Data Tool Hamilton County, OH



• Overdose Data Tool Butler County, OH



• Overdose Data Tool Northern Kentucky



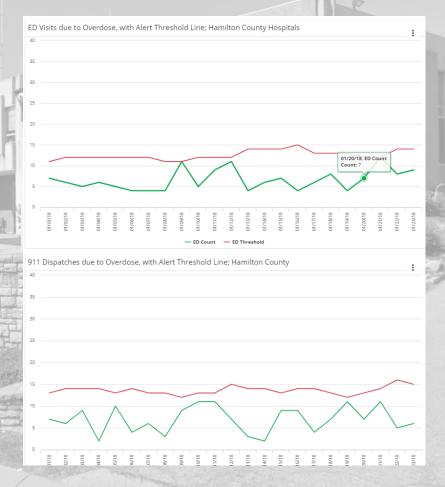
Overdose Data Tool Clermont County, OH

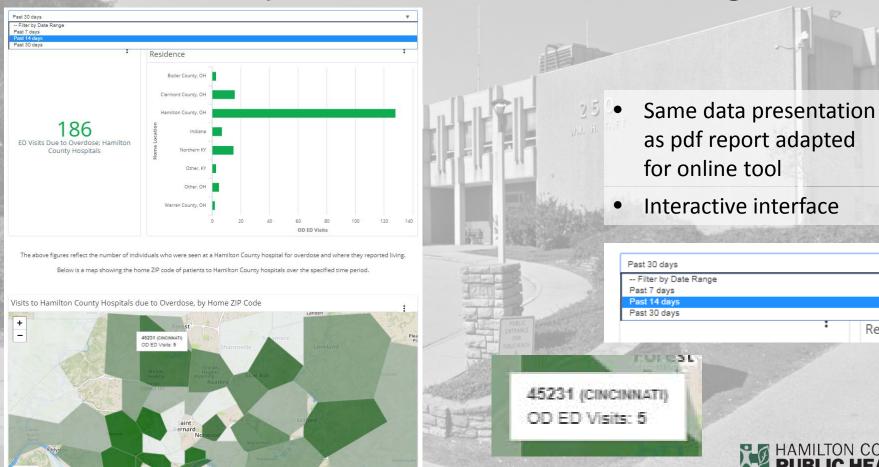




- Same data presentation as pdf report adapted for online tool
- Interactive interface







Residence

## Monthly Overdose Reporting

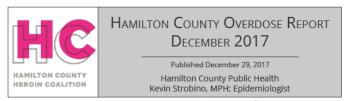


Figure 1. Monthly counts of emergency department visits, 911 dispatches, and deaths due to overdose, Hamilton County, December 2016 - December 2017

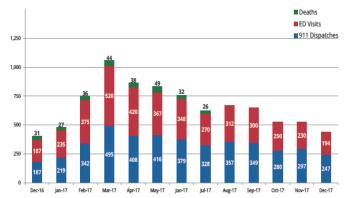


Figure 1 presents an overview of the major data sources for unintentional overdose that are explored in detail throughout this report. Estimates for emergency department (ED) visits and 911 dispatches include data through December 27 and are pro-rated to the length of the full month. Historical analysis and descriptive statistics for the daily counts of overdoses can be found on pages three and four for ED visits, page five for 911 dispatches, and page seven for Hamilton County resident deaths. These measures are defined as follows:

- ED visits: The number of overdose hospital visits, regardless of patient's residence, reported by all hospital EDs located within Hamilton County.
- 911 dispatches: The number of 911 dispatches responding to overdose that occurred within the jurisdiction of City of Cincinnati, Hamilton County, and Norwood 911 dispatch centers.
- Deaths: The number of deaths to residents of Hamilton County due to unintentional overdose of drugs of abuse.

Death data is reported as it becomes available from the Ohio Department of Health (ODH) Bureau of Vital Statistics. The 2017 death estimates provided here are preliminary, and as more 2017 overdose deaths are identified, it is possible that monthly estimates will change, especially for

deatns are identified, it is possible that monthly estimates will change, especially the most recent months. Currently, death data for 2017 includes deaths partially into September (pictured through July).

Page 1 of 8

PUBLIC HEALTH

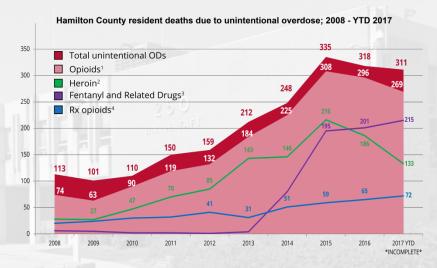
PREVENT, PROMOTE, PROTECT,

Analysis over the long-term

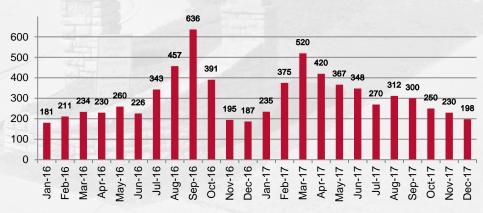


# Monthly Overdose Reporting

 Data summary for all major sources (incl. ED visits, 911 dispatches, deaths, Naloxone distribution)



ED Visits due to Overdose; Hamilton County Hospitals, 2016-17

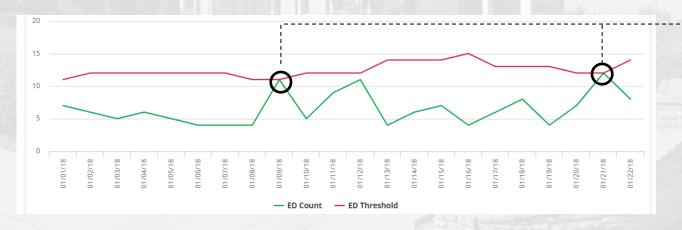




## Public Health Alert Protocol

Each day, ED visits, 911 dispatches, and a preliminary death count is estimated as part of daily reporting.

A statistical threshold is calculated for each measure based on the Poisson Distribution model



When one of the measures exceeds the statistical threshold, it is flagged.



## Public Health Alert Protocol

When any 2 measures flag over any 3 day period an overdose public health alert is issued.

Day	ED Visits	911 Dispatches	Deaths
1	<b>x1</b>	у1	z1
2	x2	y2	z2
3	х3	у3	z3

Day	ED Visits	911 Dispatches	Deaths
1	x1	у1	z1
2	x2	y2	z2
3	х3	у3	z3

Day	ED Visits	911 Dispatches	Deaths
1	x1	y1	z1
2	x2	y2	z2
3	х3	уз	z3



#### Public Health Alert Protocol







November 12, 2017

Public Health Alert: Overdose Activity Increases

#### Dear Colleagues,

Daily Hamilton County overdose surveillance during November 9-12 has indicated a spike in activity. The daily overdose report demonstrates an increase in Hamilton County emergency departments (ED) visits due to overdose; the ED visit count surpassed statistical thresholds for expected counts when eighteen overdoses were observed during the period of 6 am November 11 to November 12. Corroborating this spike is a statistically significant spike in 911 dispatches. Twenty 911 dispatches during the period of 6 am November 9 to November 10 occurred in Hamilton County and Cincinnati emergency dispatch centers. This is the largest spike in overdose numbers since the end of September of this year.

Local public health partners and the Hamilton County Heroin Coalition are issuing this alert to increase community awareness and advise first responders, healthcare providers, and substance users and their families of the increased risk for overdose in our community. This alert should serve as a notice to consider adjusting response capacity and implementing necessary protective measures which should include:

- · Having available and using necessary personal protective equipment
- Avoid using street drugs alone
- Carrying naloxone and being prepared to use multiple doses when necessary.

Currently, we do not know what may be driving this recent change in activity. However, the increased risk is evident and drawing upon recent past increases in activity, a change in the composition of illicit street drugs in our community is likely (including mixtures of opiates, fentanyl, carfentanil, and other synthetics).

We appreciate your continued collaboration.



#### **Partners**

### INTERACT FOR HEALTH





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## Thank You



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