



OVERDOSE MONITORING AND RESPONSE

- **March 20, 2023**
- **Heath Cook, MPH**

AGENDA

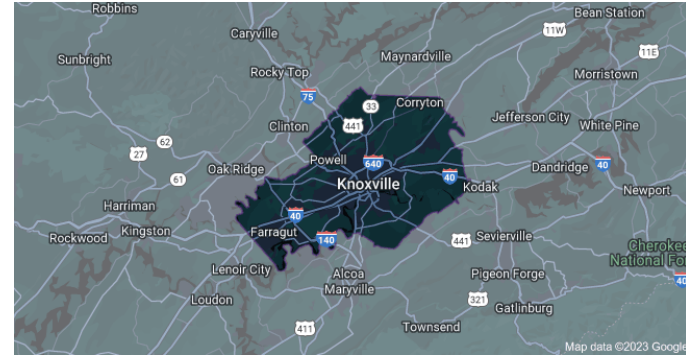
Background Info

Monitoring and Response Plan

Walkthrough Spike Response

Future Goals

Acknowledgments



WHERE IS KNOX COUNTY

BACKGROUND STATS¹

Region	Population	Count (n)	Rate (Per 100,000)
Tennessee	6,920,119		
Fatal		3,032	46
Non-Fatal Inpatient Visits		7,063	100
Non-Fatal Outpatient Visits		18,733	286
Knox County	480,126		
Fatal		342	73
Non-Fatal Inpatient Visits		465	96
Non-Fatal Outpatient Visits		1,333	289



KCHD OD PROGRAMS

Harm Reduction Program

- Three full-time harm reduction navigators on staff
- Community outreach team

All4Knox Initiative

- Communitywide, multisectoral approach

Epidemiology

- Overdose Monitoring and Response Plan

Overdose Fatality Review Team

- Collaborative, multisectoral approach

OVERDOSE MONITORING AND RESPONSE PLAN

- Purpose of making a OMAR plan:
 - Provide a framework for the systematic monitoring of overdose activity within the jurisdiction
 - Serve as a reference guide for response efforts in time-sensitive situations such as an overdose spike
 - Clearly define roles and responsibilities of team members



Define

Label

Clinical and Practical
Significance

IDENTIFYING
SPIKES

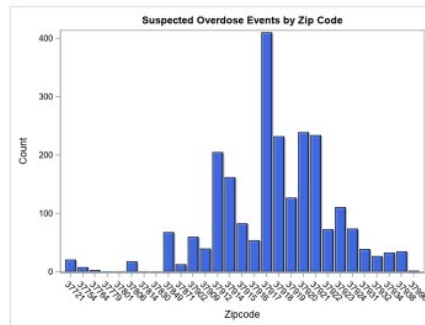


MONITORING

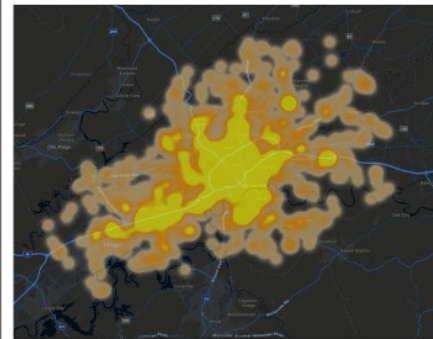
- Data Sources
 - Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE)
 - Overdose Mapping and Application Program (ODMAP)
 - Regional Forensic Center
 - Community Partners

REPORTING

- Routine Monitoring Reports
 - Weekly
 - Monthly
 - Annual

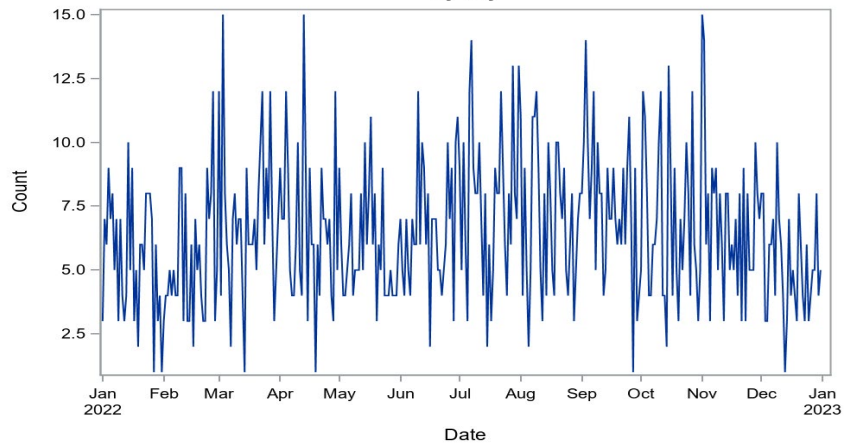


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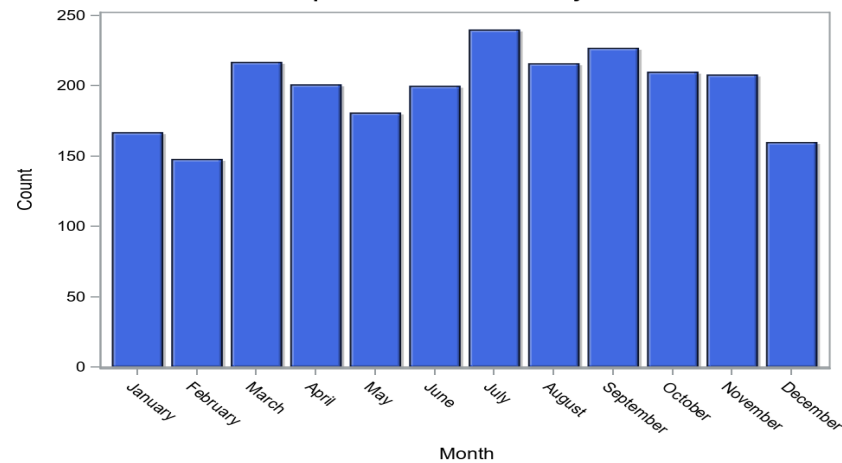


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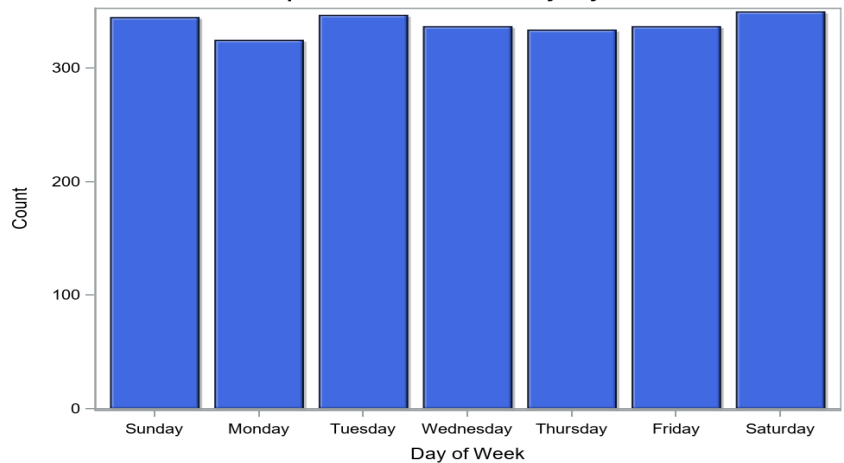
**Distribution of Overdose Events
By Day**



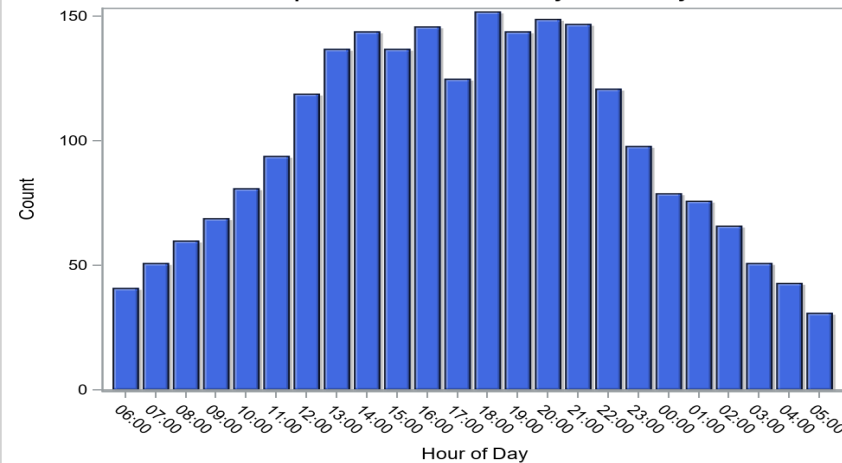
Suspected Overdose Events by Month



Suspected Overdose Events by Day of Week

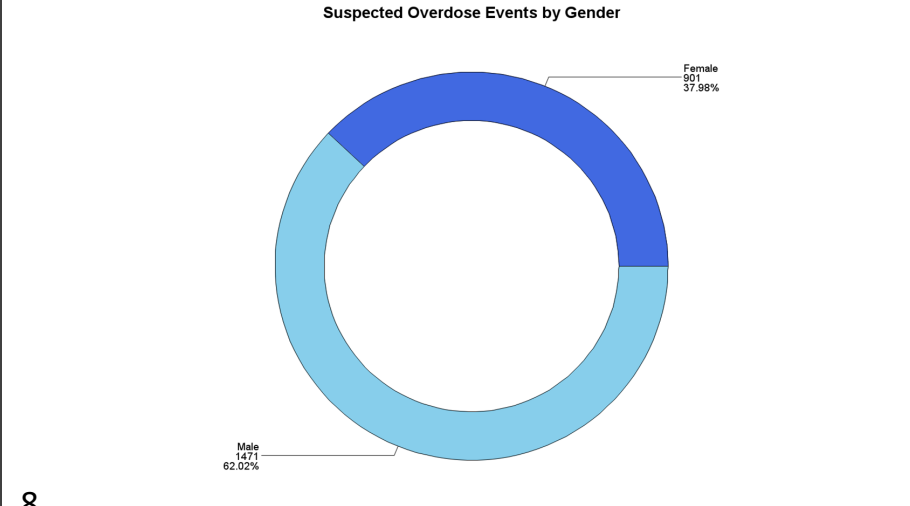
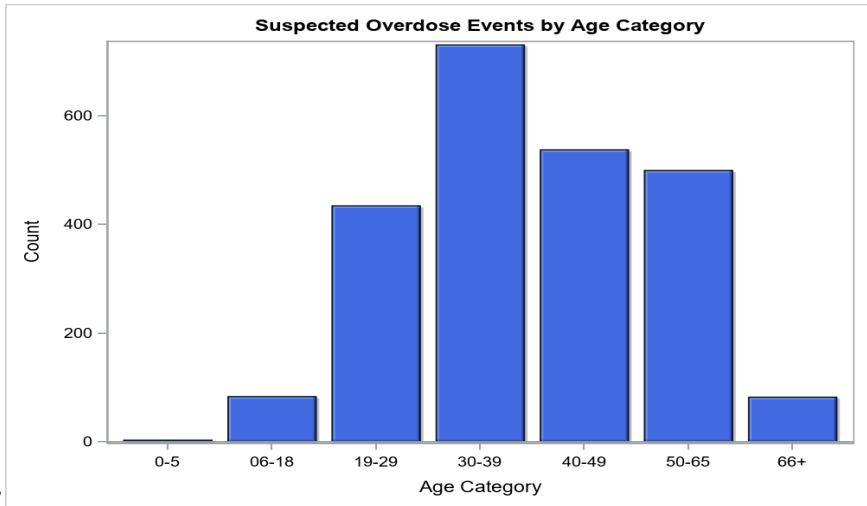
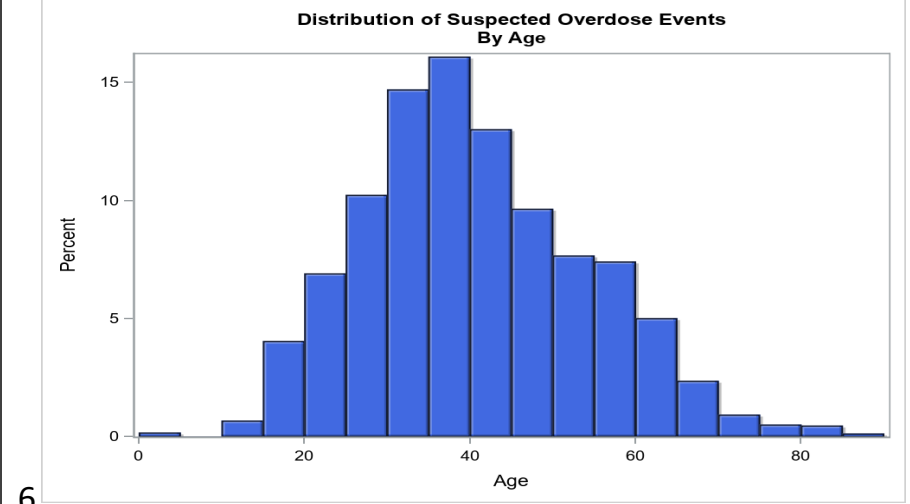


Suspected Overdose Events by Hour of Day



Summary Statistics of Suspected Overdose Events

Category	N	Mean	Minimum	Maximum
0-5	4	1	0	3
06-18	84	16	10	18
19-29	435	25	19	29
30-39	731	35	30	39
40-49	538	44	40	49
50-65	500	57	50	65
66+	81	73	66	88





RESPONSE

- Three levels of response: Internal, External, Public
- Response tiers are determined based on statistical and contextual evidence
- Internal response is the first step
- External response involves communication with community partners on manner and severity of OD threat
- A public notification may be appropriate depending on severity of OD spike

NOVEMBER 2022 SPIKE



NOVEMBER SPIKE

- Spike detected in Knox County on 11/1/2022
- Standard moving average of 7.2 ODs per day
- Observed 16 ODs on 11/1 and 14 on 11/2
- Internal response initiated immediately
- External alert initiated by end of the day and communication sent out to stakeholders
- Public alert was sent out to media outlets next day
- Naloxone and education distributed via ROPS, SSP partners, and VMC

NEXT STEPS

- Current OMAR in drafting stage
- Public report
- Cluster analysis

ACKNOWLEDGEMENTS

“This study/report was supported in part by an appointment to the Applied Epidemiology Fellowship Program administered by the Council of State and Territorial Epidemiologists (CSTE) and funded by the Centers for Disease Control and Prevention (CDC) Cooperative Agreement Number 1NU38OT000297-03-00.”

- KCHD Epi, Harm Reduction, EP, KETHC
- AMR/GMR
- Baltimore HIDTA/ODMAP
- All of our Community Partners



This has been a presentation of



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TENNESSEE

HEALTH DEPARTMENT