Using Drug Overdose Surveillance Data to Improve Overdose Response in Montgomery County

Mandy Billman, MPH

Overdose Surveillance Educator Epidemiologist, ISDH **Kayley Dotson, MPH** Overdose Surveillance Systems Epidemiologist, ISDH

Samantha Cravens, CHES

Health Educator, Montgomery County Health Dept

R. Paul Miller

Division Chief of EMS, Crawfordsville Fire Dept

Presentation Flow

- Overdose Response Project (ODRP) overview
- ESSENCE overview Kayley
- Local perspective of ODRP Samantha
- •Community paramedicine Paul
- Panel Q&A

Session Objectives

- 1. Define syndromic surveillance.
- 2. Use ESSENCE to monitor overdose trends.
- Identify potential opportunities for improving drug overdose data for your community.

Overdose Response Project Overview

Overdose Response Project Requirements

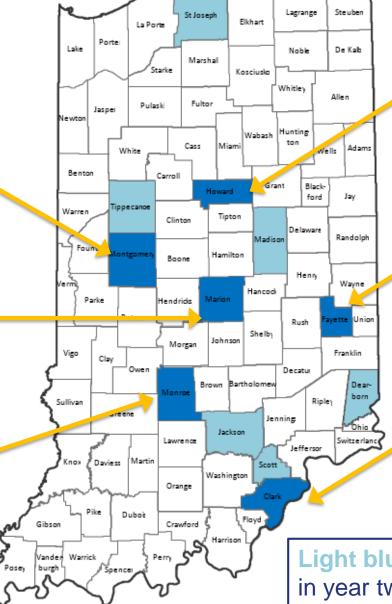
- 1. Monitor drug OD ESSENCE data
- 2. Strengthen partnerships
- 3. Develop an overdose response plan
- 4. Tabletop exercise to test plan
- 5. Contribute to overdose response toolkit

Locally-Driven Projects

Montgomery: Improve outreach & engagement with recent OD survivors

Marion: Targeted education and hosting community forums in high-risk neighborhoods

Monroe: Health navigator program & conduct an evaluation of Pathways Program



Howard: Local communication plan for overdose response

Fayette:

Prevention through education & antistigma campaign

Clark: Addiction Transition Team & mass communication for responders

Light blue counties are joining in year two of the project!

Overdose Response Project

	BUSINESS & AGRICULTURE	RESIDENTS	GOVERNMENT	EDUCATION	TAXES & FINANCE	VISITING & PLAYING	FAMILY & HEAL
Data Naloxone	*	12-			0	aloxone - Preven verdose ^{earn More}	t Fatal
Overdose Response Project	- Opioid	Misuse					0
Overdose Response Project Overview	Get the Nu					~~~~	
Clark County	Learn N	lore				verdose Respons ick here to read more	
Fayette County							
Howard County			Treatment &	Post			
Marion County	Resourc	es	Treatment Services	Т	oolkits	State Ag Resourc	
Montgomery County							
Monroe County	Syringe E General I	xchange nformation	Find Help & Treatment	C	X Awareness ampaign Toolkit for		evel Recovery
Toolkit	Opioid Pr Guideline	Opioid Prescribing Guidelines Printable Resources		ferent C	gencies & organizations in ndiana		e O Facts to and Opioid
Prescription Drug Overdose	Printable			Ir	ndiana Hospital ssociation:		
Webcasts	Indiana P	oison Center	Learn about Medication Assi	sted A	ddressing Substanc	e You	oxone Near

https://www.in.gov/isdh/27358.htm

ESSENCE

12

Syndromic Surveillance

Ongoing collection and assessment of health-related data:

- Near "real time"
- Precede diagnosis and lab results
- Identify sufficient probability that a case or an outbreak may warrant a public health response

Public Health Electronic Surveillance System (PHESS)

- Data from hospitals with emergency departments (ED) submit
 - -119 ED; two urgent care facilities
- State requires reporting of visit (410 IAC 1-2.4)
 - Required fields: DOB, sex, medical record number (MRN), hospital identifier, date and time of visit, patient chief complaint

<u>Electronic Surveillance System</u> for the Early Notification of Community-Based Epidemics (ESSENCE)

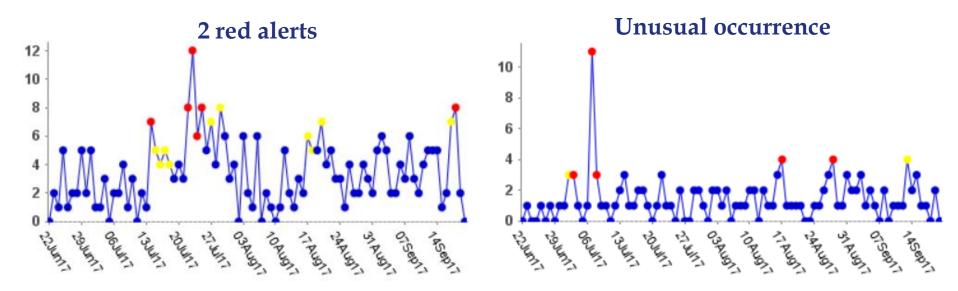
- Tool to analyze the PHESS data
- Created by Johns Hopkins University
- Data back to 2006
- Simple data visualization tools
- Access to the system:
 - Hospital
 - Local Health Department (LHD)
 - State

Suspected Drug Overdose Monitoring

- Search for keywords and spelling variations in chief complaint and discharge diagnosis*
 - Overdose
 - Specific drugs (e.g., heroin)
 - Treatments (e.g., Narcan)
 - ICD-10-CM codes (e.g., T40)
- Limitations
 - 'Overdose' definition varies person to person
 - Can change when visits are updated

*Discharge diagnosis is not a required field.

Overdose Alert Examples



Local health departments or hospitals

- 1. Receive an alert (red dot) two days in a row; **OR**
- 2. Receive an alert (red dot) preceded or proceeded by two warnings (yellow dots); **OR**
- 3. See an unusual occurrence or pattern of overdoses

Overdose Surveillance Dashboard

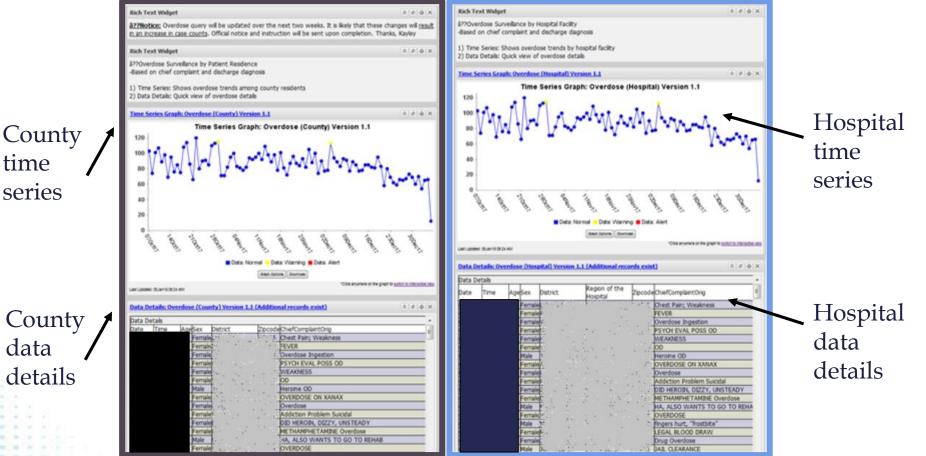
County of residence

time

series

data

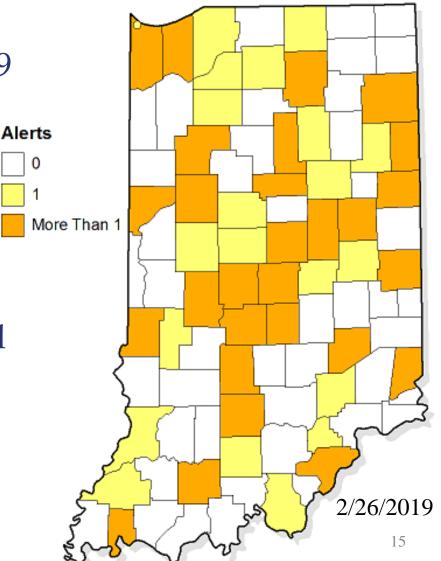
County hospital(s)



Drug OD Alert Data

0

- Alerts from 7/26/17 2/18/19
- 110 total alerts have been sent
- 55% (n=51/93) LHDs have received alerts
- 30% (n=28/93) LHDs have received multiple alerts
- 132 users from 56 counties and 5 hospitals are monitoring OD dashboards



Want to learn more?

Join us for the FLEX Quality Networking Council (FQNC) meeting for ESSENCE training webinar on March 26th from 11:00AM-12:00PM.

More information about this will be available in the IRHA list serve.

Comments or Questions? Contact Us!



Kayley Dotson, MPH Overdose Surveillance Systems Epidemiologist <u>kdotson@isdh.in.gov</u>



Mandy Billman, MPH Overdose Surveillance Educator Epidemiologist <u>abillman@isdh.in.gov</u>



Montgomery County Health Department

Overdose Response Local Health Dept.

12.0.1

March 2019

Pilot project

- ESSENCE Database
- 24-48 hour response
- Overdose Response Team
- Harm Reduction
- Community Outreach & Education
- Fatality Review

Overdose Response Team

-Paramedic

- -Certified Recovery Specialist/Peer Recovery Coach
- -Community Health Worker
- -E.g. trained law enforcement & public health -Social Worker

ESSENCE

- Data Collection Tool
- Indiana ER Data
 - Montgomery County ER vs Montgomery County Residents in other Indiana ER
 - Vital statistics, Narcan administrations, etc.

V Public Health	Montgomery County Residents Overdose Data									
Number Provident	2016 Deaths 2016 ER OD 2017 Deaths 2017 ER OD 2018 Deaths 2018 ER									
Jan	0	4	0	6	1	3				
Feb	0	5	0	5	0	10				
Mar	0	6	0	5	4	4				
Apr	0	2	2	6	2	10				
May	1	3	1	5	0	13				
Jun	1	6	1	8	1	11				
Jul	0	5	0	4	2	16				
Aug	0	4	0	4	1	8				
Sep	1	8	3	9	1	14				
Oct	1	5	2	7	0	8				
Nov	0	8	1	7	0	6				
Dec	0	5	0	16	1	6				
Total	4	61	10	82	13	109				
The data above represents both the overdose deaths of individuals that have occurred in Montgomery County										

The data above represents both the overdose deaths of individuals that have occurred in Montgomery County and the emergency room reported overdoses for Montgomery County residents throughout various hospitals in Indiana from 2016 to current. The data is collected through Montgomery County Health Department Vital Records & Indiana State Department of Health ESSENCE database, <u>"2018 numbers are raw data and are</u> not final.

Montgomer	y County Rea	idents Suicio	ie Dat
2015	2016	2017	2
1	9	5	
Suicide deaths	that occurred in	Montgomery	

2017 ER Overdoses Female 34 Male 48 Avg. Age 29.2

		current	

Overdose	deaths in Mor	tgomery Cour	nty by age	Montgomery County Narcan Administration					
Age	2016	2017	2018		CPD	MCSD	Probation		
15-19	0	0	0	2018	6	9	0		
20-25	1	4	2		Narcan admin	strations by law	enforcement in		
26-30	1	3	0	2018.		-			
31-35	0	0	5		Oplate OD	Withdraw	Non-Res.		
36-40	0	2	3	Jan	0	0	1		
41-45	0	1	1	Feb	3	1	1		
46-50	0	0	2	Mar	0	0	1		
51-55	1	0	0	Apr	3	0	4		
56-60	0	0	0	May	1	0	2		
61-65	1	0	0	Jun	7	1	5		
66-70	0	0	0	Jul	10	1	2		
71-75	0	0	0	Aug	2	1	2		
76-80	0	0	0	Sep	3	4	6		
81-85	0	0	0	Oct	5	4	1		
				Nov	2	2	2		
				Dec		0	2		
Montgomery County OD Deaths by Sex				Total	37	14	29		
Sex	2016	2017	2018	Number of opioid overdoses and withdraw presented to the					
Male	2	6	6	Crawfordsville ER and the number of non-resident overdoses					
Fomala	2	4	7	presented to Crawfordsville ER					

Harm Reduction

- Narcan
- HIV/Hep C Screening
- Sharps Disposal
- Prescription Drug Disposal
- Prevention Education



Project Evolvement

- MAT in the ER
- Drug Free Montgomery County, LLC Resource Website
- Community School Curriculum Assessment
- JCAP in the jail
- Expansion of MAT in behavioral health facilities

Barriers

- Communication & Information Sharing
 - Formal vs informal
- Transitional & Emergency Housing
- Transportation
- Data



Samantha Cravens Health Educator Montgomery County Health Department Email: <u>Samantha.cravens@montgomerycounty.in.gov</u> Phone: 765-364-6440

Amber Reed Administrator Montgomery County Health Department Email: <u>amber.reed@Montgomerycounty.in.gov</u> Phone: 765-364-6440

Visit the

Montgomery County Health Department

on our social media pages!



Facebook.com/MontCoHealth

Twitter.com/MontCoHealthDep

Instagram: montcohealth765

#WellnessBeginsWithMe #MontCoCommitted2Wellness



Collaboratively Creating Social Value Alongside Economic Development



TownMapsUSA.com

Through Shared Value

- Build and sustain a stronger community, promoting social inclusion and breaking cycles of disadvantage
- Strengthen local economic development
- Grow and strengthen innovative partnerships with corporate and community stakeholders and across the public sector
- Demonstrate leadership

• Achieve greater value for money and ensure that this value reflects social, financial, and generational equality.

Fire Department QRT initiative is to create an evidenced based program encompassing

- Prevention
- Response
- Treatment
- Recovery



What does addiction look like



What About or Seniors



Wrapping Services



State Heart Failure Pilot (2017) Chronic Disease Management (2017) Prenatal/Postpartum Visits (March 2018) Falls Program (2019) Overdose Response (2018)

Joshua S. Krumenacker, MD, PhD

What's the Best Treatment Options



Opioid Rapid Response

- Wrap-around services
- Harm reduction education
- 24-48 hour follow-up
- ED Based MAT
- Fire Department In- Home MAT Inductions
- JCAP



Collaborative Partners

- Indiana State Department of Health
- Franciscan Health Crawfordsville
- Montgomery County Community Foundation
- Purdue Health & Human Sciences Public Health Graduates
 Programs
- Manchester University
- Montgomery County Health Department, Sheriffs Department, & Courts
- Indiana University Richard M. Fairbanks School of Public Health
- Franciscan ACO
- Wabash College
- CDC
- CTSI
- Qsource





Crawfordsville Fire Department Raymond P. Miller, Division Chief of EMS



100 South Water Street Crawfordsville Indiana 47933 (765) 362-1277 rmiller@crawfordsville-in.gov

12.00

Panel Discussion

Open for questions and comments

• Panel

- Mandy Billman, MPH Moderator/Facilitator
- Overdose Surveillance Educator Epidemiologist, ISDH
- Kayley Dotson, MPH
- Overdose Surveillance Systems Epidemiologist, ISDH
- Samantha Cravens, CHES
- Health Educator, Montgomery County Health Dept
- R. Paul Miller
- Division Chief of EMS, Crawfordsville Fire Dept