#### SEOW Symposium AGENDA

#### May 18th, 2018

08:00 - 08:30	Registration and breakfast		
08:30 - 08:40	Opening remarks Joshua Vest, PhD, MPH		
08:40 - 09:00	Key findings from the 2017 SEOW report <i>Marion Greene, MPH, PhD(c)</i>		
09:00 - 09:20	Tableau website presentation Harold Kooreman, MA, MSW		
09:20 - 09:40	ACE's and their impact on substance use <i>Casey Balio, BA</i>		
09:40 - 10:00	Substance use among young adults Tamara Leech, PhD		
10:00 - 10:20	Break		
10:20 - 10:40	Opioid-related ED visits Kevin Wiley, Jr., MPH Casey Balio, BA		
10:40 - 11:00	Enhanced State Opioid Overdose Surveillance Raven Helmick, MPH, CPH		
11:00 - 11:20	State-level evaluation findings for DMHA grantees <i>Hope McMickle, BA</i>		
11:20 - 11:40	Division of Mental Health & Addiction Julie Gries, MS		
11:40 - 12:00	Substance use in Indiana (panel discussion) Facilitator: Joshua Vest, PhD, MPH Panelists: Joan Duwve, MD, MPH Dennis Watson, PhD Ben Gonzales		

Welcome to the SEOW Symposium



## **Opening Remarks**

### Joshua Vest, PhD, MPH

Director, Center for Health Policy

Associate Professor, Health Policy & Management

IU Richard M. Fairbanks School of Public Health

Research Scientist, Regenstrief Institute

joshvest@iu.edu



## Alcohol, Tobacco, and Other Drugs in Indiana (Key Findings from the 2017 SEOW Report)

#### Marion S. Greene

Chair, State Epidemiological Outcomes Workgroup SEOW Symposium May 18, 2018

## **U**INDIANA UNIVERSITY

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# Who is the State Epidemiological Outcomes Workgroup (SEOW)?

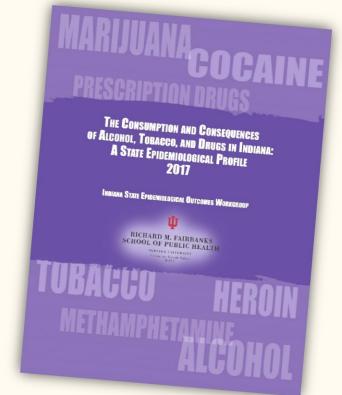


- Collaboration of representatives from various state agencies
- Established in 2006
- Primary objectives
  - Monitor substance use and its consequences in Indiana; expanded to include mental health indicators
  - Identify statewide prevention priorities
  - Disseminate findings to legislators, prevention planners, and community organizations to encourage data-driven decisionmaking



## **SEOW Publications**

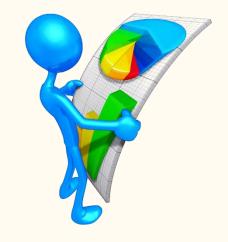
- Publishing annual epidemiological reports since 2006
- 2017 Report soon to be released
- Additional publications
  - Drug fact sheets
  - Prevention priorities
  - Behavioral health issue briefs
- Available on our website
  <u>https://fsph.iupui.edu/research-</u>
  <u>centers/centers/health-policy</u>





## This year's SEOW line-up

- Table of contents
  - ➢ Alcohol
  - Tobacco
  - ➤ Marijuana
  - ➢ Opioids
  - Stimulants
  - Mental health and suicide
- Interactive online data tool
  Tableau website (Harold)





## **KEY FINDINGS**





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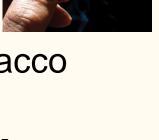
## ALCOHOL

- Most widely used and abused substance
- 52.0% of Indiana adults consumed alcohol in the past month and 17.5% engaged in binge drinking [5]
  - Binge drinking most prevalent among males and younger adults
- Underage drinking: 30.5% of high school students drank in past month and engaged in 17.4% binge drinking [2]
- An estimated 5.3% of Hoosiers ages 12 and older suffered from an alcohol use disorder in the past year
   [1]



TOBACCO

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- Leading cause of preventable death in U.S.
- 28.7% of Hoosiers ages 12+ currently use a tobacco product, mostly cigarettes [1]
- Adult smoking prevalence in Indiana is 21.1% [5]
  - Significantly higher among people with lower educational attainment and income
- Current use of cigarettes & e-cigs in middle and high school students has decreased from 2014 to 2016

Cigarettes: 1.8% of MS students and 8.7% of HS students

E-cigs 2.8% of MS students and 10.5% of HS students [6]





## MARIJUANA



- Most widely used illicit drug
- Current use among Hoosiers ages 12+ was 8.8% [1]
  ➢ Highest among young adults ages 18-25 (19.6%)
- About 16% of Indiana high school students currently use marijuana [2]
- Marijuana use reported in nearly half (47.7%) of Indiana's treatment admissions [7]

> Highest among males, blacks, and those under 18



## STIMULANTS -COCAINE



 1.3% of Hoosiers ages 12+ reported past-year cocaine use [1]

Rates were highest among 18- to 25-year-olds (3.9%)

 In 11% of Indiana treatment admissions cocaine use was reported [7]

Highest among blacks and adults over 45



## STIMULANTS -METHAMPHETAMINE



- No state-level estimates for general population
- In nearly 18% of Indiana treatment admissions meth use was reported [7]
  - Meth use in treatment population is on the rise
  - Highest among females, whites, and people ages 25-44
- Indiana State Police seized 387 clandestine meth labs in 2017 [8]
  - Significant decrease from its peak in 2013 (1,721 lab seizures)



## **OPIOIDS – Prescription Opioids**



- Pain relievers are the most commonly abused type of prescription drug
- 4.9% of Hoosiers ages 12+ reported misusing pain relievers in the past year [1]

Highest rate among 18-25 year-olds (9.9%)

• In nearly 22% of Indiana treatment admissions Rx pain reliever misuse was reported [7]

> Highest use among females, whites, and 25-34 year olds



## OPIOIDS – HEROIN



- Past-year use among Hoosiers ages 12+ was 0.4% [1]
- In about one in five Indiana treatment admissions heroin use was reported [7]
  - Still below U.S. percentage, but has increased significantly over the years
  - Highest use among females, whites, and 18- to 34-yearolds
- 13,697 unique patients were served in opioid treatment programs in 2017



## POLYSUBSTANCE ABUSE



- Among those in treatment, more than two-thirds report using 2 or more drugs [7]
- Most polysubstance abuse involved either alcohol and some other drug or marijuana and methamphetamine [7]



## **Mental Health**



- 20.0% of Indiana adults had a mental illness and 4.9% had a serious mental illness in the past year [1]
- 15.9% of Indiana adults experienced depression in their lifetime [5]
  - ≻ Rates higher for females (20.5%) than males (11.0%)
- 9.9% of Indiana high school students attempted suicide in the past year [2]
- Suicide mortality has increased significantly, from 10.4 per 100,000 in 1999 to 15.4 per 100,000 in 2016 [11]



## **Reviewing our Statewide Priorities**

Tobacco (3 priorities) Alcohol (2 priorities) **Opioids** (2 priorities) Mental health (1 priority) General recommendations (2)



#### For questions and additiona information, please contact:

Julie Gries **Bureau** Chief Division of Mental Health & Addiction (317) 232,7894 julie.gries@fssa.in.gov

Prenared for: Indiana Family and Social Services Administration Division of Mental Health & Addiction

Prepared by: The Center for Health Policy IU Richard M. Fairbanks School of Public Health Indiana University-Purdue University Indianapolis 1050 Wishard Blvd. Indianapolis, IN 46202



The State's overarching goal is to reduce substance abuse and protect the physical and mental wellbeing of all Hoosiers. Based on findings from the 2016 State Epidemiological Profile and expertise from SEOW members, we identified behavioral health priorities in the following areas:

- · Tobacco use in youth, pregnant women, and overall adults
- · High-risk alcohol consumption in youth and young adults
- · Misuse of prescription and non-prescription opioids, often leading to, potentially fatal, overdoses
- · Sukide attempts in youth
- · General recommendations to (a) monitor marijuana use and (b) expand data collection efforts to better address behavioral health needs of special populations

The SEOW recommends a four-year period, from 2017 to 2021, to address and re-evaluate the identified behavioral health priorities. However, we will review these statistics annually and add priorities as necessary; i.e., if the magnitude or consequences of an emerging trend warrants additional attention.



Healthy, safe, and drug-free environments that nurture and assist all Indiana citizens to thrive.







across the lifespan of Indiana citizens



#### **TOBACCO (NICOTINE)**

#### Youth tobacco use

Reduce past-month use of any tobacco product, including e-cigarettes, in middle school students from 8.2% to 5.0% and in high school students from 26.9% to 20.0%.

Data source: IYTS, 2014

Target setting method: TPC recommendation and SEOW consent

#### Smoking during pregnancy

Reduce smoking in pregnant women from 14.3% to 8.0%.

Data source: Natality Report, 2015

Target setting method: TPC, 2020 Strategic Plan (p. 25)

#### Adult smoking

Reduce smoking among all adults from 20.6% to 18.0%.

Data source: BRFSS, 2015

Target setting method: TPC, 2020 Strategic Plan (p. 33)

### **Current Estimates**

Youth tobacco use Middle school: 4.9% High school: 20.3%



Smoking during pregnancy 13.5%



### Adult smoking 21.1%





### ALCOHOL

#### Underage drinking

Reduce past-month alcohol use in 12- to 20-yearolds from 21.0% to 18.9%.

Data source: NSDUH, 2014-2015

Target setting method: 10% improvement (modified from Healthy People 2020, objective SA-13.1)

### **Current Estimates**

Underage drinking 20.9%

#### Binge drinking in young adults

Reduce past-month binge drinking in young adults ages 18 to 24 from 28.7% to 25.8%.

Data source: BRFSS, 2015

Target setting method: 10% improvement (Healthy People 2020, objective SA-14.3)

Binge drinking in young adults 26.5%



### **OPIOIDS**

#### Drug overdose mortality<sup>1</sup>

Reduce fatal drug overdoses from 1,236 deaths to 927 deaths.

Data source: ISDH, 2015

Target setting method: 25% improvement (SEOW consent)

### **Current Estimates**

### Drug overdose mortality 1,518 deaths

#### Prescription opioid misuse

Prescription opioid misuse is still a public health concern. Due to changes in the design of the National Survey on Drug Use and Health (NSDUH), state-level estimates were not available this year and future estimates will not be comparable to prior years. Therefore, we recommend re-evaluating next year's rate of prescription opioid misuse for inclusion in next year's priorities. Prescription opioid misuse 4.9% Hoosiers ages 12+ (2016 NSDUH)





#### Suicide attempts in youth

Reduce the percentage of high school students who attempted suicide in the past year from 9.9% to not more than 8.9%.

Data source: YRBS, 2015

Target setting method: 10% improvement (SEOW consent)

### **Current Estimates**

### Suicide attempts in youth No new data yet



### **GENERAL RECOMMENDATIONS**

There has been a recent upward trend in marijuana use. Given the expanding legalization of marijuana (as of 2016, 28 U.S. states have legalized marijuana for medical/recreational purposes), the SEOW recommends to monitor its use in the general population and to consider its inclusion in the Prevention Priorities in future years.

The SEOW acknowledges the importance of consistent data collection, especially at the state and sub-state level. We recommend the state maintain and improve its efforts to collect relevant data on behavioral health indicators and to expand collecting information from special populations, including the LGBTQ community; racial/ethnic minorities such as African Americans, Latinos, and Native Americans/Indian Tribes; people involved with the criminal justice system; veterans and military families; people who live in rural areas; and people experiencing homelessness.





- Alcohol & tobacco continue to have the greatest impact; i.e., they affect the largest number of people
- Marijuana use is on the rise
- Opioids continue to be a public health concern
  Addiction, overdose, transmission of HIV/AIDS and hepatitis B & C through IDU



## **Center for Health Policy**

The Center for Health Policy collaborates with state and local government, as well as public and private healthcare organizations in health policy and program development to conduct high quality program evaluation and applied research on critical health policy-related issues.

Marion S. Greene, MPH, PhD(c) Center for Health Policy IU Richard M. Fairbanks School of Public Health at IUPUI 1050 Wishard Blvd, RG 5143 Indianapolis, IN 46202 317-278-3247 msgreene@iu.edu



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[2] Centers for Disease Control and Prevention. (2017). Youth Risk Behavior Surveillance System (YRBSS). Retrieved from <a href="http://nccd.cdc.gov/youthonline">http://nccd.cdc.gov/youthonline</a>

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[5] Centers for Disease Control and Prevention. (2018). *Behavioral Risk Factor Surveillance System (BRFSS) prevalence & trends data*. Retrieved from <u>http://www.cdc.gov/brfss/brfssprevalence/index.html</u>

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## **Tableau Website Presentation**

### Harold Kooreman, MA, MSW

Policy Analyst, Center for Health Policy IU Richard M. Fairbanks School of Public Health hkoorema@iu.edu





## The Relationship between Adverse Childhood Experiences, Substance Misuse, & Future Health

**Casey Balio** 

PhD Student, Department of Health Policy & Management Richard M. Fairbanks School of Public health

## **ACE Issue Brief**

IU CENTER FOR H INDIANA SCHOOL OF	March 2018		
ADVERSE CHILDHOOD	18-H01		
AND THEIR IMPACT OI & OVERAL	SUMMARY • Adverse Childhood Experi- ences (ACEs) include emo-		
Introduction	racial discrimination [6,7].	tional, physical, or sexual abuse; witnessing maternal domestic violence; or living	
Adverse childhood experiences (ACEs) encompass a wide variety of distressing events during a child's life. Originally, ACEs included emotional,	Background on ACEs Research	with a household member who has a substance use dis- order, is mentally ill or suicid- al, or is currently or was ever	
	ACEs came to prominence in 1995, when Kaiser	incarcerated during the first 18 years of a child's life.	

Can access full issue brief (and others) at: bit.ly/SEOWissuebriefs

## Agenda

- What are ACEs?
- The Kaiser Study
- Prevalence of ACEs
- ACEs and Substance use
- ACEs and Health
- Causality
- Recommendations
- Questions

## **ACE Definition**

Occurence of any of the following during childhood:

- Emotional, physical, or sexual abuse
- Witnessing maternal domestic violence
- Living with a household member who has a substance use disorder or mental illness, is suicidal, or who is currently or was ever incarcerated <sup>1</sup>



## **Expanded ACE Definition**

More recent definitions include:

- Living with a household member who smokes <sup>2</sup>
- witnessing any inter-partner violence in the household
- having parents who are separated or divorced
- withstanding physical or emotional neglect <sup>4,5</sup>
- experiencing parent or guardian death <sup>6,7</sup>
- Witnessing neighborhood violence 6,7
- enduring socioeconomic hardship <sup>6,7</sup>
- experiencing racial discrimination



## The CDC-Kaiser ACE Study 1,8

- Commissioned by the CDC, began in 1995
- Surveyed 9,500 adults from Kaiser's HMO population
- Having experienced each type of ACE
- Subsequent and current health status and behaviors
- Since then, have continued to monitor, complete additional studies with the same and different populations
- Kaiser has also implemented screening/addressing ACEs in primary care visits

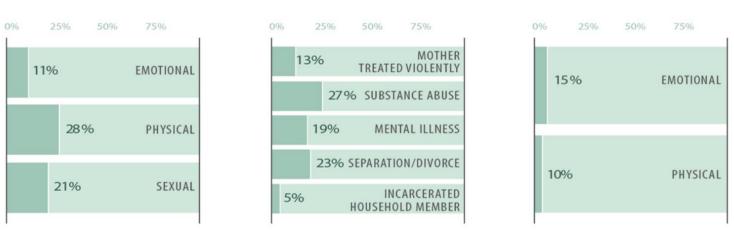


## Early Findings from the CDC-Kaiser Study <sup>1,8</sup>

- 52% of the adult population has experienced at least one ACE
- ACEs are often experienced in "clusters"

ABUSE

• A dose-response relationship exists with future mental & physical health status



HOUSEHOLD CHALLENGES

NEGLECT

Source: CDC Adverse Childhood Experiences Presentation Graphics https://www.cdc.gov/violenceprevention/acestudy/ACE\_graphics.html



## ACE Pyramid<sup>8</sup>

Early death Disease, disability, and social problems

Adoption of health-risk behaviors

Social, emotional, and cognitive impairment

**Disrupted neurodevelopment** 

Adverse childhood experiences

Conception

Death



### **Current Prevalence**

	2011-2012		2016	
	Indiana	US	Indiana	US
Any ACE	52.3	47.9	47.3	46.3
1 ACE	25.3	25.3	23.1	24.6
2 or more ACEs	27.0	22.6	24.2	21.7

Source: National Survey of Children's Health



## **ACEs & Substance Use**

## Alcohol

- Early initiation of alcohol use
- Heavy drinking
- Self-reported alcoholism
- Marrying an alcoholic

## **Illicit Substances**

- Lifetime drug use
- Lifetime injection drug use
- Early initiation of drug use
- Drug addiction

## Tobacco

- Current smoking status
- Frequent tobacco use

56% of prevalence of lifetime drug use attributable to ACEs<sup>9</sup>



## **Other Risk Behaviors**

- Anger control
- Interpartner violence
- Sexual risk behaviors
- Early & unintended pregnancy



## **ACEs & Health**

### **Mental Health**

- Antisocial behavior
- Depressive symptoms
- Mood & anxiety disorders
- Perceived stress
- Disrupted sleep
- Suicidal thoughts & attempts
  - $\circ$  mediated



### **Mental Health**

- Antisocial behavior
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## **Mental Health**

- Antisocial behavior
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  - mediated

An estimated 80% of childhood/ adolescent suicide attempts attributable to ACEs while 67% of lifetime attempts & 64% of adult attempts are attributable to ACEs<sup>14</sup>

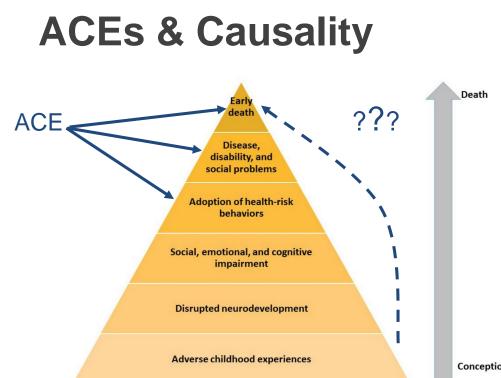


## **Physical Health**

- Self-rated general health status
- Mortality (although mediated by other factors)\*
- Prescription drug utilization

On average, individuals with 2 ACE categories die 2 years earlier than those with none, while individuals with 6+ ACE categories died nearly 20 years earlier <sup>10</sup>





- Correlation  $\neq$  causation
- Hill Criteria for assessing causality when randomization isn't possible
  - Strong correlation 0
  - **Biological plausibility** Ο
  - Temporality
  - Graded relationship Ο
- CDC-Kaiser study has established several of these <sup>11</sup>

Conception



## Summary

ACEs are associated with future physical, mental, and general health as well as substance use, risk behaviors, healthcare spending, and mortality.

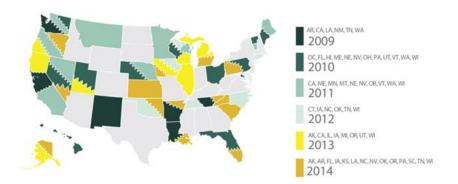
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Rigorous evidence that these relationships may be causal.

What now???

#### Policy Recommendation 1: Increase data collection in Indiana

- BRFSS has an ACE module, 32 states have participated at least once but Indiana has not
- Questions that reflect current ACE definitions
- Ideally obtained from children and young adults for better reliability
- Indiana Youth Survey



Source: CDC Adverse Childhood Experiences Presentation Graphics https://www.cdc.gov/violenceprevention/acestudy/ACE\_graphics.html



#### Policy Recommendation 2: Increase screening for ACEs in clinical settings

- Kaiser has implemented a screening for adults in primary care <sup>12</sup>
  - Took substantial effort to implement, both cost and provider support
  - Associated with reductions in ED visits and hospitalizations, suggested possibly because of an improved relationship and trust between the patient and provider
- Suggested to be implemented in both pediatric and adult settings
  - Pediatricians already include a variety of familial/household conditions during well-child visits
  - American Academy of Pediatrics endorses this but only 4% ask about all ACEs while 32% ask about none <sup>13</sup>



#### Full issue brief at: <a href="http://bit.ly/SEOWissuebriefs">bit.ly/SEOWissuebriefs</a>

SAMHSA Webinar: <u>Trauma & Adverse Childhood</u> Experiences: Implications for Preventing Substance <u>Misuse</u>

Contact Information: Casey Balio <a href="mailto:cbalio@iu.edu">cbalio@iu.edu</a>



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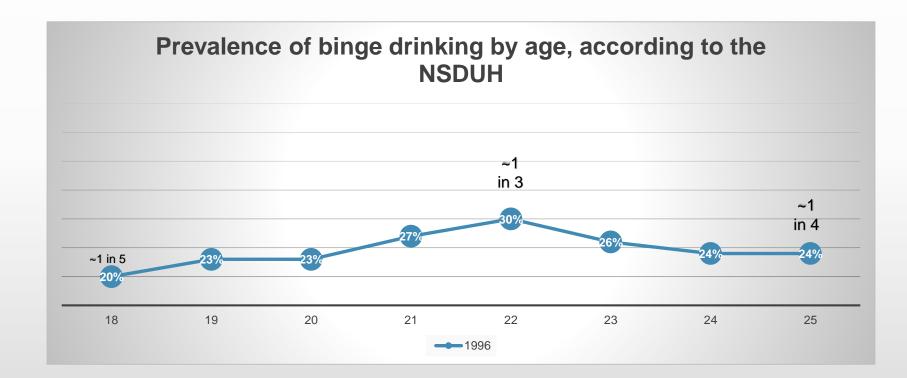
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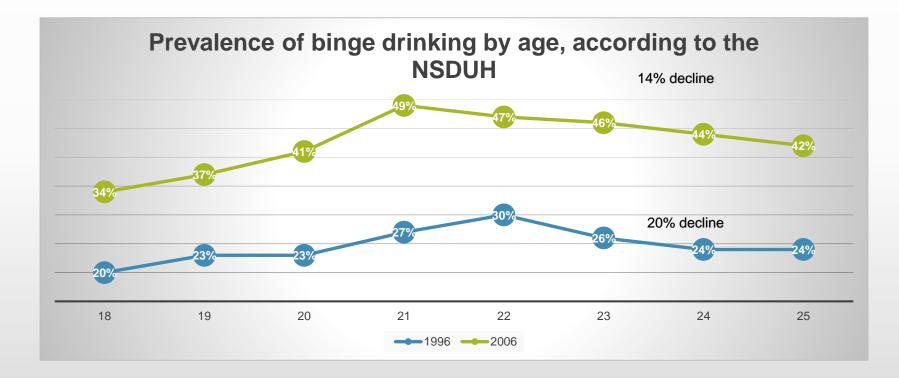
## Binge Drinking among Young Adults: Two Distinct Phases

Tamara G.J. Leech, PhD Associate Professor Department of Public Health Montclair State University

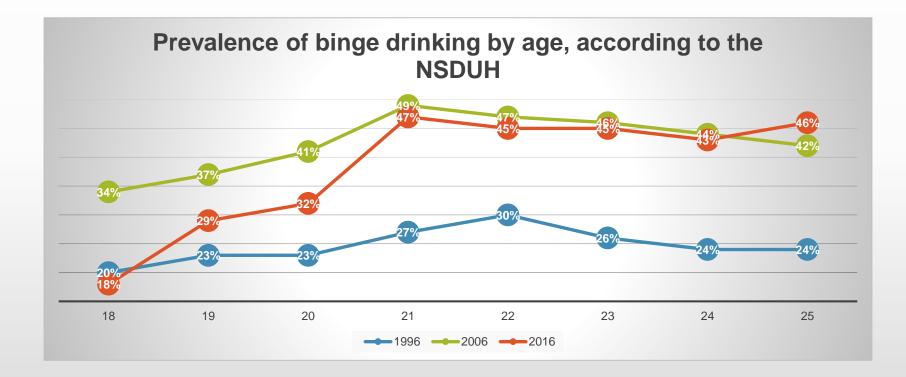
## Aging out in 1996



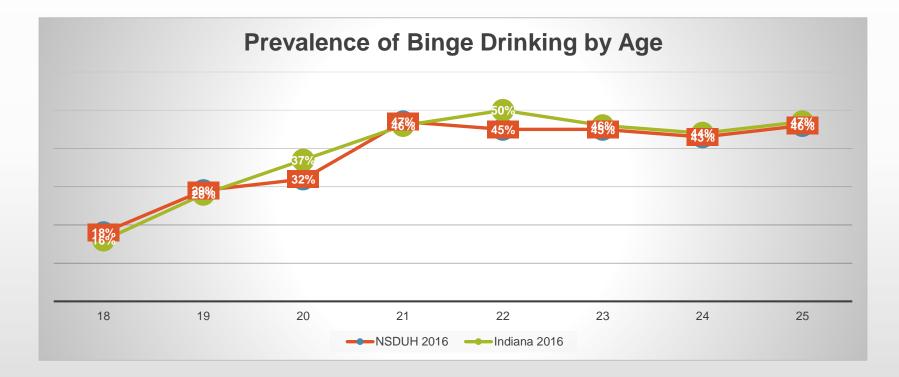
## Overall increase by 2006, & less aging out



## Decrease in early ages by 2016, no aging out



### Our Data on Young Adults in Indiana Match the Broader National Trend



## Extended Adolescence vs. Emerging Adulthood

Two distinct phases in "young adulthood": Ages 18-21 vs. ages 22-25

## Description of Partnership for Success (PFS) Survey

- Survey of young adults in 10 Indiana counties: Cass, Clark, Floyd, Knox, Lake, Madison, Marion, Porter, Scott, and Vanderburgh.
- Identified by Indiana's Division of Mental Health and Addiction (DMHA) in collaboration with the State Epidemiological Outcomes Workgroup as having high rates of underage drinking and/or prescription drug misuse.
- Funded through the U.S. Substance Abuse and Mental Health Services Administration's (PFS) grant.
- Stratified sampling relative to the proportion of young adults in each county. Young adults aged 18 to 25 with a current cell phone number were recruited via text messaging.
- Data collected November through December 2016. These analyses use information from 1,097 respondents.

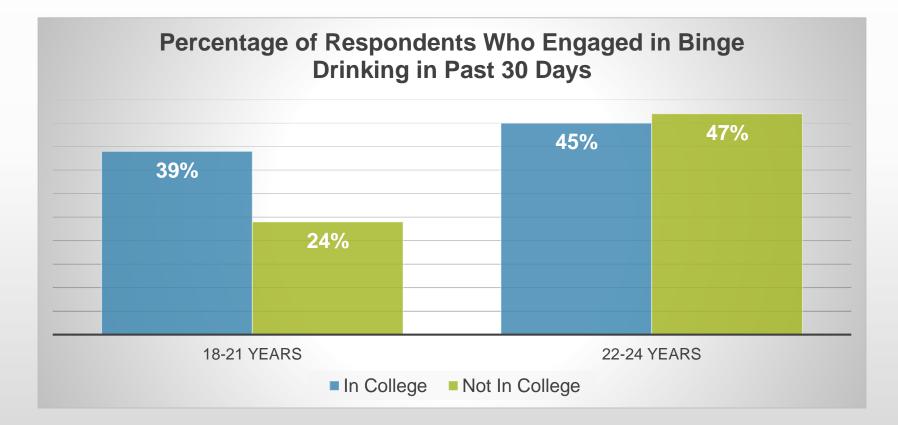
## Our Respondents in 10 Indiana Counties

	Overall (n=1,097)	Extended Adolescents: 18- 21yrs (n=410)	Emerging Adults: 22-25yrs (n=687)	
Sex				
Male	31%	38%	37%	
Female	63%	62%	63%	
Race				
White	68%	64%	71%	
Black	19%	23%	17%	
Other	12%	13%	11%	
Enrolled in College	45%	63%	34%	
Binge drinking in past 30 days	42%	33%	46%	

## During Extended Adolescence...

College Enrollment and Financial Stress are related to Binge Drinking

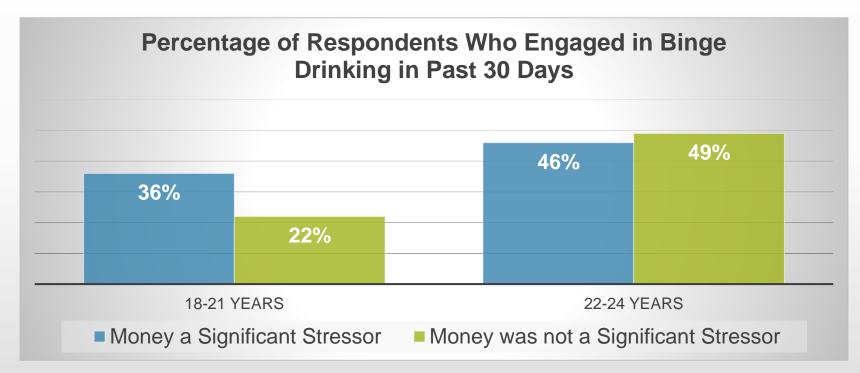
## College Enrollment Matters among 18-21 year olds



	Emerging Adults (n=687)			Extended Adolescents (n=410)		
	Coef.	Std. Err.	Р	Coef.	Std. Err.	Р
Women	-0.37	0.16	0.02	0.01	0.01	0.97
Black	-0.41	0.21	0.06	-0.58	0.29	0.04
Other Race	-0.79	0.26	0.00	-0.40	0.34	0.24
College Graduate	-0.01	0.21	0.96	0.67	0.60	0.27
Some College	-0.27	0.21	0.21	0.32	0.25	0.02
Age	-0.10	0.07	0.17	0.35	0.11	0.00
Enrolled in College	-0.04	0.17	0.82	0.57	0.24	0.02
_cons	2.73	1.73	0.12	-8.07	2.26	0.00
R2	0.02			0.07		

Even after adjusting for other factors, younger adults attending college are 77% more likely to binge drink than other 18-21 year olds.

## Financial Stress Seems to be a Trigger specific to Extended Adolescence

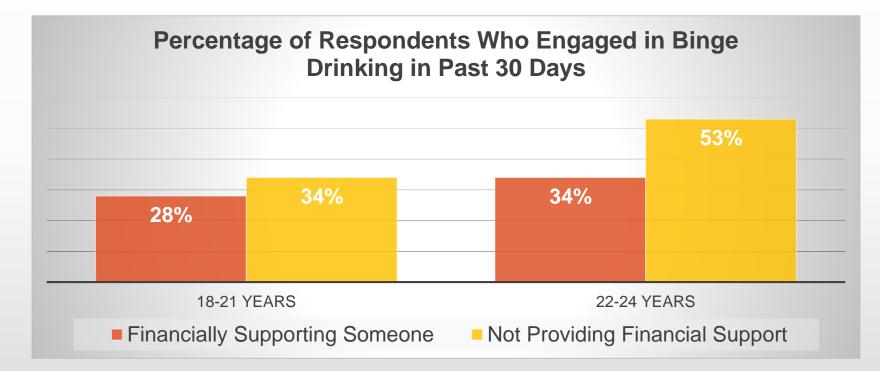


More than 4 out of 5 in both age groups reported that money is a significant source of stress.

## During Emerging Adulthood...

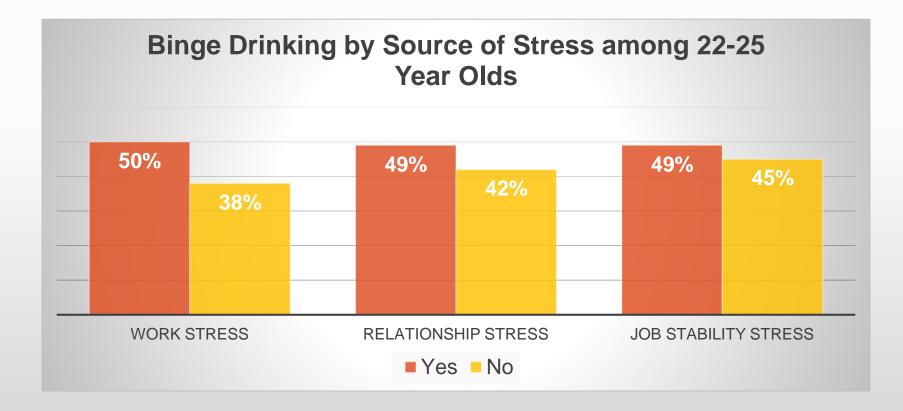
Financially supporting someone and stress from both work and relationships are related to binge drinking.

## Emerging adults who financially support others are 51% less likely to binge drink



Being self-sufficient (never receiving financial support from parents) is NOT significantly correlated. (p=.94)

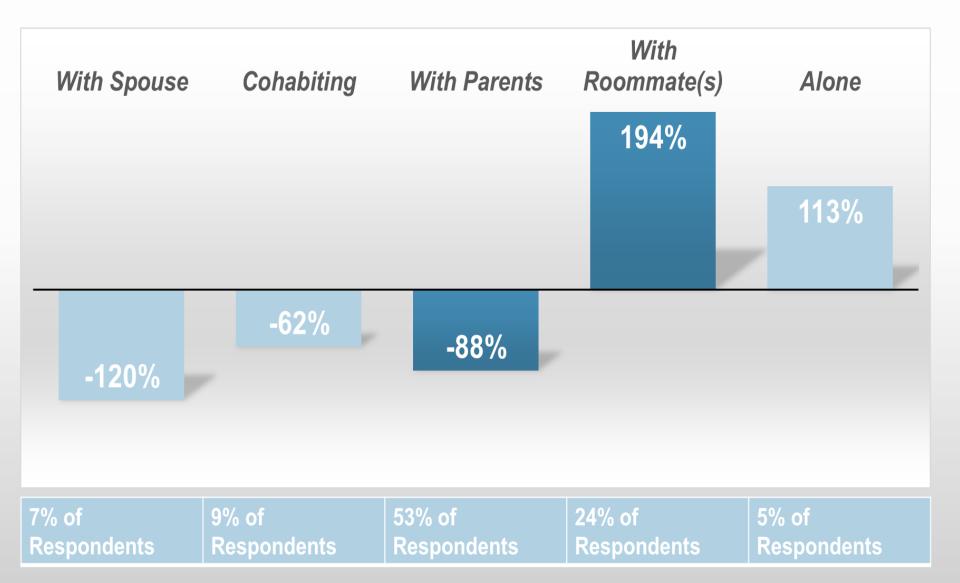
## Work and Relationships Stress is Related to Binge Drinking (Job stability is marginal)



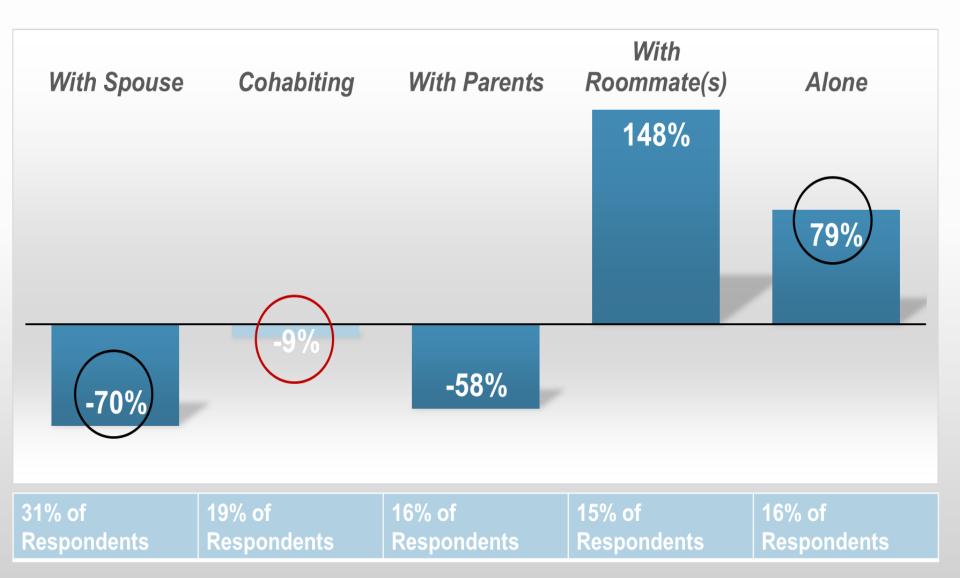
# Living with Roommates Poses a Risk to Everyone

But the association between Binge Drinking and other living situations differs in important ways.

### Likelihood of Binge Drinking among 18-21 year olds, by Living Situation

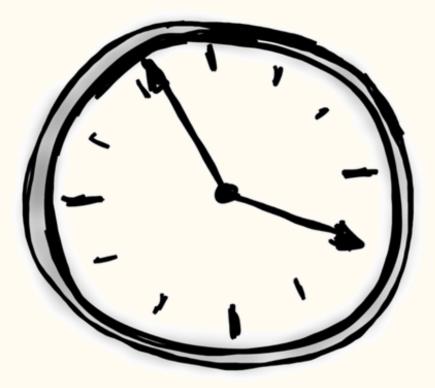


### Likelihood of Binge Drinking among 22-25 year olds, by Living Situation



## Implications

- 1. If there is one thing to focus on for all young adults, it is the roommate environment.
- 2. For the younger cohort (18-21 year olds), focusing on the campus environment and financial stress (perhaps from college fees?) may be appropriate.
- 3. For the older cohort (22-25), the typical transition into adulthood (marriage, the responsibility to financially support others) is still protective.
  - But it is less common at these ages than it used to be, and the cohabitation replacing it is not protective.
- 4. It may be more feasible and fruitful to focus on dealing with stress from relationships characteristic of this transition.



## TIME FOR A Break!



CENTER FOR HEALTH POLICY

Ψ

## Structured vs. Unstructured Data: Working towards a better estimate of opioid-related emergency department visits

Casey Balio Marion Greene, MPH Joshua Vest, PhD, MPH Kevin Wiley, Jr., MPH

Overview

### **Overview**

Background

**Research Question** 

Methods

Results

**Policy/Informatics Implications** 



- CDC: 15.7 per 10,000 ED visits suspected opioidinvolved overdoses <sup>1</sup>
- Highest rates among large metropolitan areas (up to 40 per 10,000 ED visits) <sup>1</sup>
- Inpatient stays are more frequent, but ED are increasing more rapidly <sup>2</sup>
- Indiana estimates just below the national average at 15.2 per 10,000 (national 17.8)<sup>2</sup>

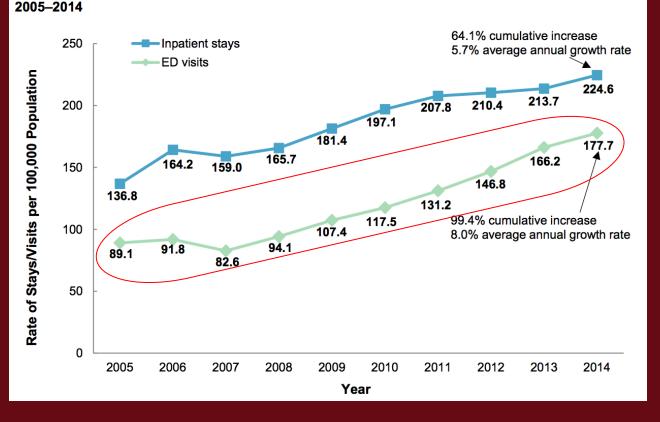


Figure 1. National rate of opioid-related inpatient stays and emergency department visits,

# Current estimates rely on structured data which may underestimate the true prevalence.

- Previous research analyzed structured (ICD-9/10-CM) data for prevalence estimates which may underestimate the extent of the opioid crisis
- Researchers hypothesize that clinicians may not always code opioid misuse for the following reasons <sup>2</sup>
  - Stigma
  - Privacy
  - Not completely consistent over providers



# Pairing unstructured data to achieve better prevalence estimates.

- Clinicians may include information about opioid-misuse in the unstructured, clinical note
- Natural language processing (NLP) applications may improve opioid-misuse prevalence estimates <sup>3, 4</sup>
  - Abstracts data from free-text clinical notes in the EHR
  - Used for risk prediction for future misuse
  - Often in primary care setting

**Research Question** 

What is the prevalence of emergency department visits attributable to opioid misuse as identified via structured and unstructured EHR information?

### Methods

- 1. Data:
  - a. EHR data from 2 large, urban hospitals in Indianapolis from 2012-2017
  - b. Patient demographic, encounter, diagnoses, and unstructured clinical notes
- 2. Sample: Adult, ED encounters
- 3. Measurement:
  - a. Identify cases that were:
    - i. Structured (ICD-positive)
    - ii. Unstructured (NLP-positive)
    - iii. Structured + Unstructured (NLP+ & ICD+)
- 4. Analysis:
  - a. Structured opioid-misuse attributable ED visits trends (2012-2017)
  - b. Unstructured opioid-misuse attributable ED visits trends (2012-2017)
  - c. All trends for years 2012-2017



NLP Search

# What are we looking for in the unstructured data?

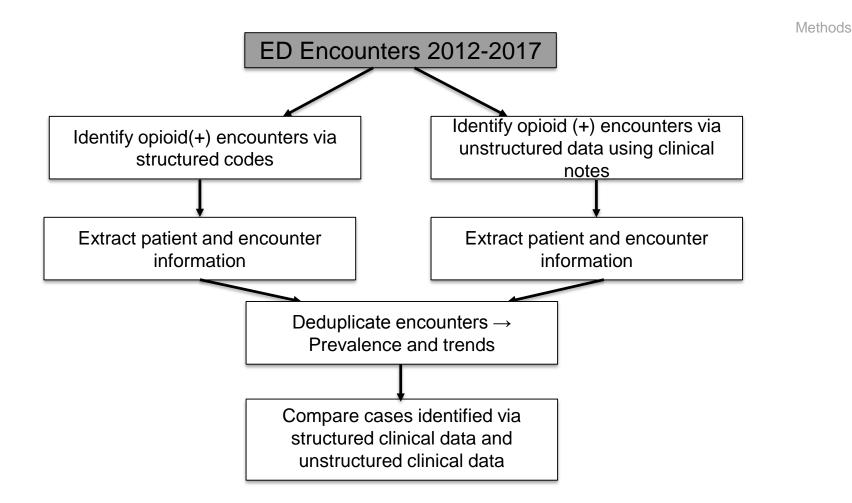
Term groups<sup>3</sup>:

- Opioid (e.g., Hydrocodone)
- Antagonists (e.g., Naloxone)
- Problem Use Terms
- Response Terms
- Treatment Terms

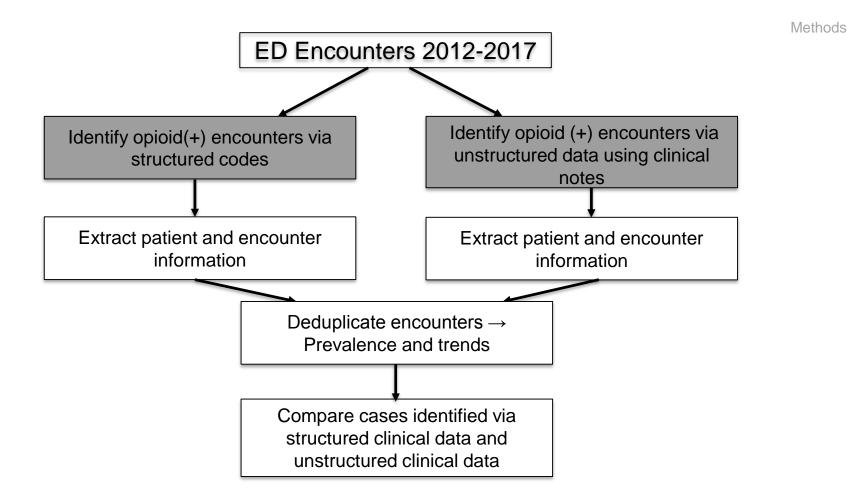
Grouped into rules:

- Ex. [opioid term] + [problem use term]
  - Note could include "opioid dependent" or "over use of pain medications"

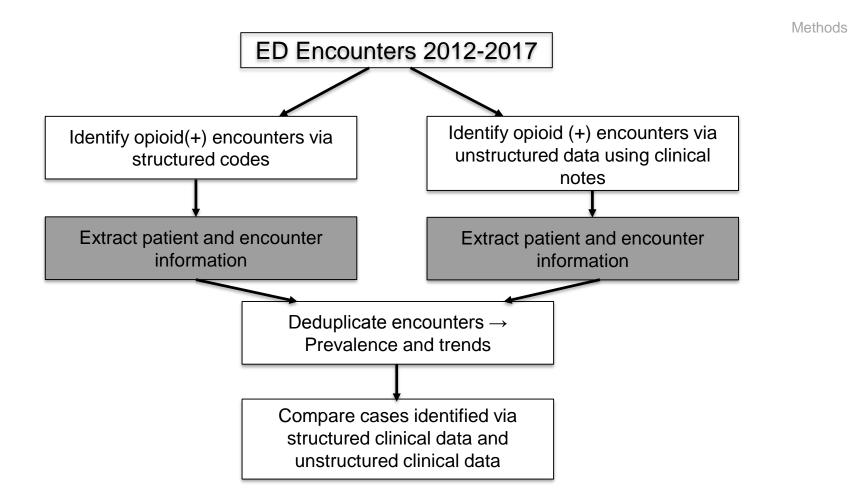




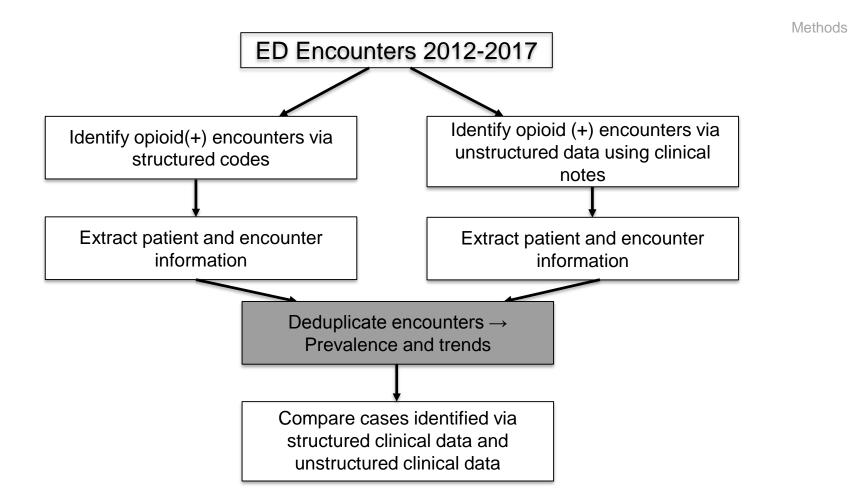




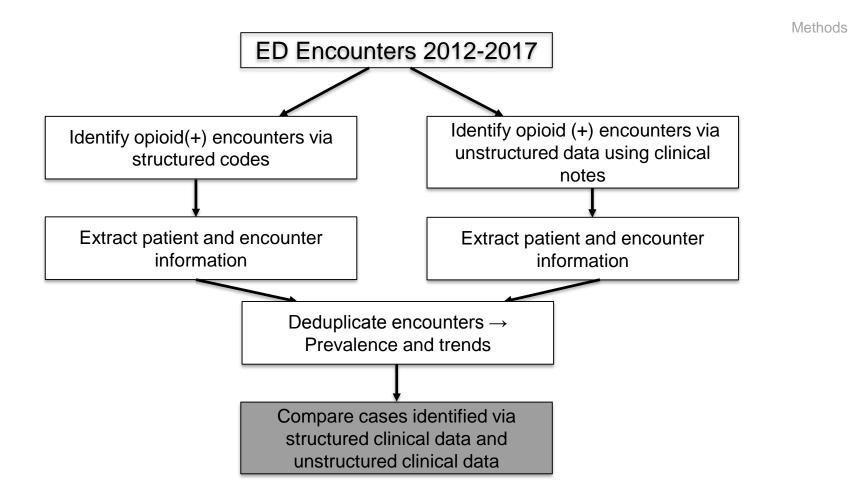














### Results

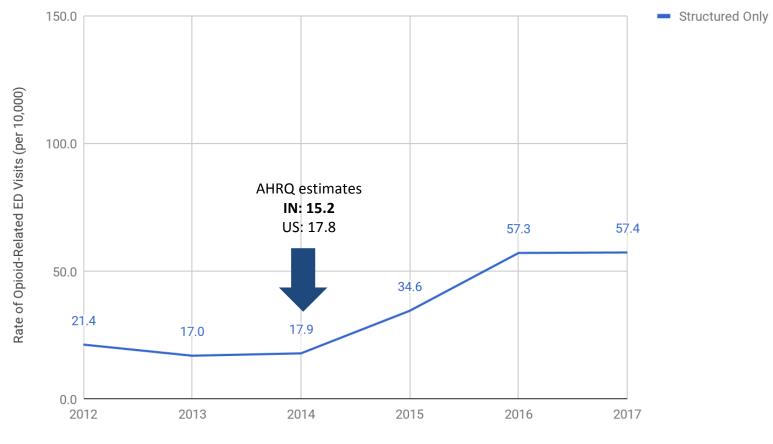
- 13,352 total opioid-positive encounters across 6,207 patients
- 38.9% of patients had multiple encounters
- Max 25 encounters
- Average age: 36.1
- [Heroin] + [Problem Use] & [Opioid] + [Problem Use] most common rule groups
- 91 encounters identified as naloxone-related from unstructured notes would not have been found without NLP



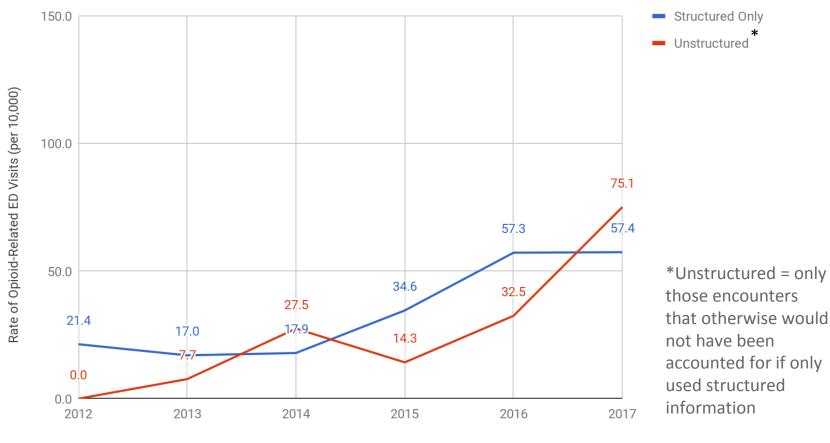
	Structured (%) ICD-only	Unstructured (%) NLP-Only	Total Sample (%)
Patient Characteristics			
Male	4,364 (58.3)	3,087 (52.7)	7,451 (55.8)
White	5,576 (85.6)	4,527 (87.5)	10,103 (86.5)
Black	768 (11.1)	527 (10.2)	1,295 (11.8)
Hispanic ethnicity	118 (1.7)	100 (1.8)	218 (1.8)
Encounter Characteristics			
Day encounter	3,729 (49.8)	3,209 (54.7)	6,938 (52.0)
Fall	2,095 (24.8)	1,997 (34.1)	3,855 (28.9)
Weekend	2,095 (28.0)	1,662 (28.3)	3,757 (28.1)
TOTAL	7,490 (56.1)	5,862 (43.9)	13,352

Note: Race % out of those with coded race, n=11,687 / 13,352

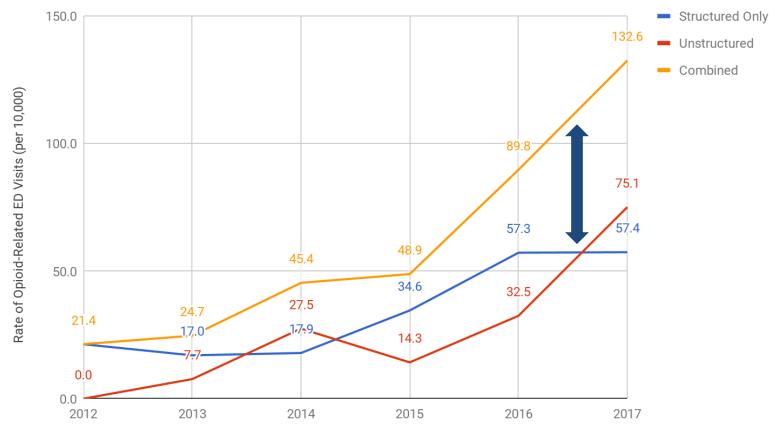












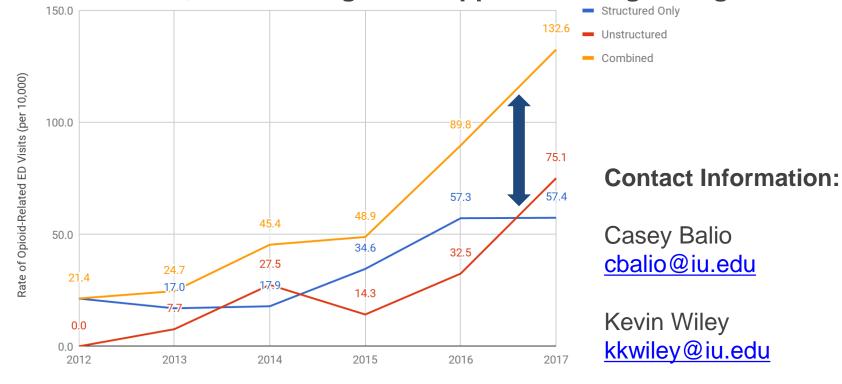


#### **Potential Policy and Informatics Implications**

- Most of our estimates until this point are probably underestimates
- Misuse seems generally to span patient characteristics, but less so encounter characteristics
- Replication across healthcare organizations with disparate reporting/record maintenance: community health, primary care centers
- Better understand clinician processes for documentation
- Improve clinician training regarding ICD-9/10 transition
- Self-report data may be more accurate than clinician entry



Current estimates of opioid-related ED encounters are likely underestimates, and the magnitude appears to be growing.





Reference

#### References

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- 1. Palmer, R. E., Carrell, D. S., Cronkite, D., Saunders, K., Gross, D. E., Masters, E., ... Von Kroff, M. (2015). The prevalence of problem opioid use in patients receiving chronic opioid therapy: computer-assisted review of electronic health record clinical notes. *Pain*, *156*(7), 1208–1214.



# Enhanced State Opioid Overdose Surveillance (ESOOS)

Raven Helmick, MPH, CPH

Prescription Drug Overdose Epidemiologist, Indiana State Department of Health, Division of Trauma and Injury Prevention



### **Purpose of ESOOS**

- Supports states with a high burden of drug overdoses to improve the timeliness of fatal and nonfatal opioid overdose surveillance.
- Efforts to control the epidemic are plagued with data limitations, and time lags in current surveillance systems limit the ability to respond quickly and appropriately.
- Accurate and timely data on overdose rates and risk factors are essential in responding to opioid overdoses at the local level, but data quality varies greatly across the regions and communities of the state.



### **Key Strategies**

- 1. Increase the timeliness of aggregate emergency department opioid overdose reporting
- 2. Increase the timeliness of fatal opioid overdose and associated risk factor reporting
- 3. Disseminate surveillance findings to key stakeholders working to prevent or respond to opioid overdose
- 4. Develop an economically feasible and standardized toxicology panel for coroner testing of suspected drug intoxication deaths
- 5. Assist in educating coroners about using INSPECT data during investigations



- 1. Increase the timeliness of aggregate emergency department opioid overdose reporting
  - Use the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE) Emergency Department (ED) visit data to track opioid-involved overdoses for 1) suspected drug overdoses; 2) suspected overdoses involving any opioid, including opioid pain relievers (OPRs); 3) suspected overdoses involving heroin or illicitly made fentanyl
  - Consistently collect feedback, share methodology, and validate and revise case definitions as needed
    - Analyze data for dissemination



2. Increase the timeliness of fatal opioid overdose and associated risk factor reporting

- Collect death certificates from ISDH Vital Records and coroner reports from the 92 county coroners (82 so far) into the CDC Secure Access Management Service web-based system for data analysis to develop a comprehensive fatal opioid overdose surveillance system
- Collect and abstract data on all opioid-involved overdose deaths within eight months of the date of death
- Analyze comprehensive fatal opioid overdose and associated risk factor surveillance data for dissemination



3. Disseminate surveillance findings to key stakeholders working to prevent or respond to opioid overdose

- Stakeholders and the public receive timely geographically specific trends in ED overdoses to assist in prevention planning and receive timely data on fatal opioid overdoses and risk factors to assist in targeted prevention planning.
- Morbidity reports will be released on a quarterly basis.
- Mortality reports will be released 3 times in the next 2 years.
- Released on Stats Explorer and Overdose Prevention website.



4. Develop an economically feasible and standardized toxicology panel for coroner testing of suspected drug intoxication deaths

- Established a web-based database for coroners to upload toxicology results.
- Expanded the current capabilities of toxicology panel.
- Expedited surveillance in response to mortality trends in toxicology across Indiana jurisdictions.
- Include full funding of enhanced toxicology screening for all 92 Indiana counties by July 1, 2018. This expansion comes via a state legislative mandate and will come in three distinct roll-out periods (blocks).
- Considering a monthly report for this data.



5. Assist in educating Indiana coroners about using INSPECT data during investigations

- Success in reducing Rx opiates with funding for INSPECT, which allows prescribers, dispensers, and law enforcement to access prescribing history. Additional changes allow county coroners conducting drug investigations to access the INSPECT program.
- The Indiana Professional Licensing Agency (IPLA) has identified the need to educate coroners and provide investigation tools to address fatal drug-related data quality issues stemming from coroner investigations.
- IPLA will educate through the Continuing Education (CE) Program on PDMPs on the availability and use of INSPECT during overdose investigations.

Indiana State Department of Health

### **ISDH Data Visualizations**

- Stats Explorer
  - <u>https://gis.in.gov/apps/isdh/meta/stats</u> <u>layers.htm</u>
- Trauma and Injury Prevention Overdose Prevention Website
  - <u>https://secure.in.gov/isdh/27393.htm</u>



### **Contact Information**

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### STATE-LEVEL EVALUATION FINDINGS SFY17

**DMHA GRANTEES** 

Hope McMickle, BA Program Evaluator, Indiana Prevention Resource Center



#### **INDIANA UNIVERSITY**

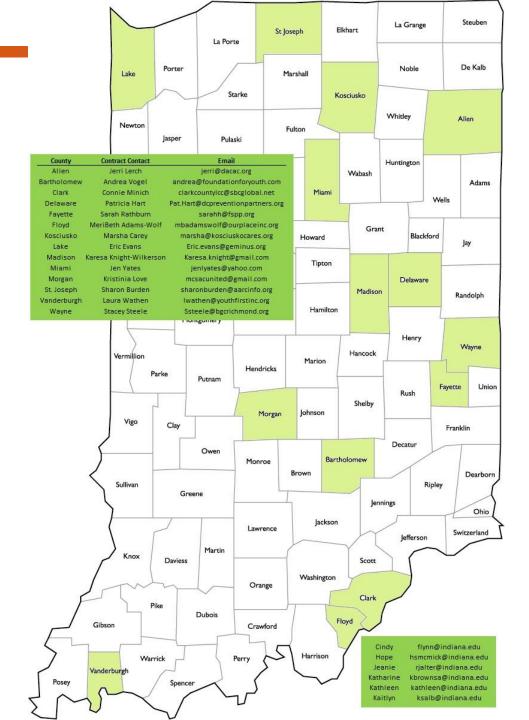
INDIANA PREVENTION RESOURCE CENTER

Department of Applied Health Science Bloomington

### **OVERVIEW**

- Technical & Evaluation Assistance provided to:
  - 14 SAPT BG grantees
- Used tiered evaluation approach to evaluate at the program level, community level, and state level
  - Full report available at <u>www.drugs.indiana.edu/spf</u>

# DMHA GRANTEES



### RISK AND PROTECTIVE FACTORS

#### Peer/Individual

Early Initiation of Drug Use (R)

Interaction with Antisocial Peers (R)

Favorable attitudes toward Antisocial behavior (R)

Perceived Risk of Drug Use (R)

Rewards for Antisocial Involvement (R)

Interaction with Prosocial Peers (P)

#### Family:

Family Conflict (R)

Family Management (R)

Parental Attitudes Favor Drug Use/Antisocial Behavior (R)

Family Opportunities for Prosocial Involvement (P)

#### **School:**

Lack of Commitment to School (R) Academic Failure (R) Opportunities for Prosocial Involvement (P) Rewards for Prosocial Involvement (P)

#### **Community:**

Availability of Drugs (R)

Community Laws/Norms Favorable Toward Drug Use (R)

Rewards for Prosocial Involvement (P)

### **STRATEGIES**

Al's Pals

Footprints for Life

Guiding Good Choices

**Project Alert** 

**Positive Action** 

**Strengthening Families Program** 

LifeSkills Training

Parents Who Host Lose The Most

Talk, They Hear You

**Positive Culture Framework** 

Social Host Ordinance

Over 543,000 served!

# STATEWIDE CHANGES IN RISK & PROTECTIVE FACTORS

#### COMPARISONS BETWEEN FUNDED COMMUNITIES ACROSS TIME

Source: Indiana Youth Survey (INYS)

Gassman, R., Jun, M., Samuel, S., Agley, J. D., & Lee, J. (2017). *Indiana Youth Survey – 2017*. Bloomington, IN: Indiana Prevention Resource Center.

### **RISK FACTORS**

Risk Factor (Percentage at High Risk)	2016 CPF Funded Communities n=28,592	2017 CPF Funded Communities n=23,140			
Perceived Availability of Drugs (percentages)					
8 <sup>th</sup> Grade	20.6	20.4			
10 <sup>th</sup> Grade	27.6	26.6			
12 <sup>th</sup> Grade	37.4	35.2			
Peer/Individual Interaction with Antisocial Peers (percentages)					
8 <sup>th</sup> Grade	29.9	32.9			
10 <sup>th</sup> Grade	30.0	33.5			
12 <sup>th</sup> Grade	33.2	33.1			

Data from the Annual Indiana Youth Survey (INYS)

(Gassman, et al., 2016; Gassman, et al., 2017)

### **DECREASED RISK**

Risk Factor (Percentage at High Risk)	2016 CPF Funded Communities n=28,592	2017 CPF Funded Communities n=23,140			
Poor Family Management (percentages)					
8 <sup>th</sup> Grade	23.6	23.6			
10 <sup>th</sup> Grade	21.3	22.3			
12 <sup>th</sup> Grade	26.4	24.6			
Laws and Norms Favorable to Drug Use (percentages)					
8 <sup>th</sup> Grade	29.9	29.6			
10 <sup>th</sup> Grade	40.0	40.0			
12 <sup>th</sup> Grade	38.2	37.0			

Data from the Annual Indiana Youth Survey (INYS) (Gassman, et al., 2016; Gassman, et al., 2017)

# **YOUTH USE**

#### INDIANA'S SEOW HAS IDENTIFIED PRIORITY SUBSTANCES:

- Alcohol
- Marijuana
- Tobacco
- Prescription Drugs (used without a prescription)

#### COMPARED RATES (2016—2017) IN DMHA FUNDED COMMUNITIES

Source: Indiana Youth Survey (INYS)

Gassman, R., Jun, M., Samuel, S., Agley, J. D., & Lee, J. (2017). *Indiana Youth Survey – 2017*. Bloomington, IN: Indiana Prevention Resource Center.

# USE RATE COMPARISONS 2016-2017

<b>Priority Substance</b>	2016 CPF Funded Communities n=28,592	2017 CPF Funded Communities n=23,140				
<b>30-Day Alcohol Use (percentages)</b>						
8 <sup>th</sup> Grade	13.8	13.4*				
10 <sup>th</sup> Grade	24.0	24.4**				
12 <sup>th</sup> Grade	34.6	33.7*				
Overall	22.5	22.9**				
<b>30-Day Cigarette Use (percentages)</b>						
8 <sup>th</sup> Grade	5.3	4.5*				
10 <sup>th</sup> Grade	8.5	7.2*				
12 <sup>th</sup> Grade	14.5	11.8*				
Overall	8.7	7.5*				

\* indicates p<0.05 one-tailed significance in the expected direction

Data from the Annual Indiana Youth Survey (INYS) (Gassman, et al., 2016; Gassman, et al., 2017)

\*\*indicates p<0.05 two tailed significance

# USE RATE COMPARISONS 2016-2017

	2016 CPF Funded	2017 CPF Funded				
Priority Substance	Communities	Communities				
	n=28,592	n=23,140				
30-Day Marijuana Use (percentages)						
8 <sup>th</sup> Grade	7.4	8.4**				
10 <sup>th</sup> Grade	14.8	17.5				
12 <sup>th</sup> Grade	21.8	23.2**				
Overall	13.6	15.7**				
<b>30-Day Rx Use (percentages)</b>						
8 <sup>th</sup> Grade	2.6	2.9				
10 <sup>th</sup> Grade	4.5	4.0*				
12 <sup>th</sup> Grade	6.5	5.4*				
Overall	4.2	4.0*				
* indicates p<0.05 one-tailed significance in	ce in the Data from the Annual Indiana Youth Survey (INYS)					

expected direction

\*\*indicates p<0.05 two tailed significance

Data from the Annual Indiana Youth Survey (INYS) (Gassman, et al., 2016; Gassman, et al., 2017)

# STATE WIDE YOUTH RATE OF USE

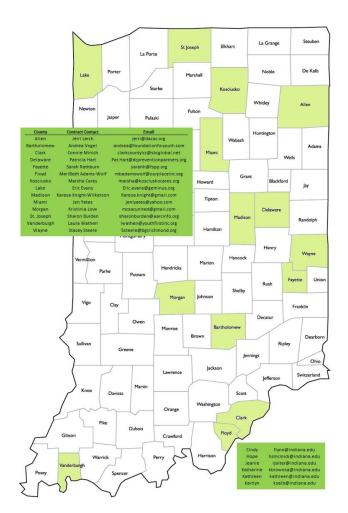
#### STATE WIDE, FUNDED, AND UNFUNDED COMMUNITIES

Source: Indiana Youth Survey (INYS)

Gassman, R., Jun, M., Samuel, S., Agley, J. D., & Lee, J. (2017). *Indiana Youth Survey – 2017*. Bloomington, IN: Indiana Prevention Resource Center.

#### STATEWIDE YOUTH RATES OF USE

- Statewide Rates
- Rates in Unfunded Communities
- Rates in Funded Communities



# 2017 USE RATES

Priority Substance	2017 Statewide n=54,651	2017 Non-Funded Communities n=31,511	2017 CPF Funded Communities n=23,410		
30-Day Alcohol Use (percentages)					
8 <sup>th</sup> Grade	13.0	12.8	13.4		
10 <sup>th</sup> Grade	22.4	20.9	24.4*		
12 <sup>th</sup> Grade	32.2	30.8	33.7*		
Overall	20.9	19.5	22.9*		
30-Day Cigarette Use (percentages)					
8 <sup>th</sup> Grade	4.8	5.0	4.5		
10 <sup>th</sup> Grade	8.0	8.5	7.2*		
12 <sup>th</sup> Grade	12.8	13.6	11.8*		
Overall	7.8	8.1	7.5*		

\* indicates p<0.05

Data from the Annual Indiana Youth Survey (INYS) (Gassman, et al., 2017)

# **2017 USE RATES**

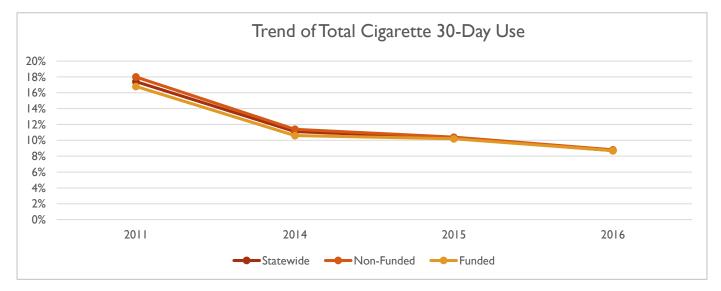
Priority Substance	2017 Statewide n=54,651	2017 Non-Funded Communities n=31,511	2017 CPF Funded Communities n=23,140		
30-Day Marijuana Use (percentages)					
8 <sup>th</sup> Grade	6.4	5.2	8.4*		
10 <sup>th</sup> Grade	14.1	11.5	17.5*		
12 <sup>th</sup> Grade	19.5	16.2	23.2*		
Overall	12.3	9.8	15.7*		
30-Day Rx Use (percentages)					
8 <sup>th</sup> Grade	2.5	2.2	2.9*		
10 <sup>th</sup> Grade	3.5	3.0	<b>4.0</b> *		
12 <sup>th</sup> Grade	4.6	4.0	5.4*		
Overall	3.3	2.9	<b>4.0</b> *		

\* indicates p<0.05

Data from the Annual Indiana Youth Survey (INYS) (Gassman, et al., 2017)

# **30 DAY USE**

# Comparisons between funded and unfunded communities across time



#### **Coming Next Year!**

# QUESTIONS & COMMENTS



# Division of Mental Health and Addiction (DMHA)

Julie Gries, MS Assistant Deputy Director Substance Abuse Prevention and Mental Health Promotion Division of Mental Health and Addiction



## DMHA

"To ensure that Indiana citizens have access to quality mental health and addiction services that promote individual, family and community resiliency and recovery."



# Substance Use Prevention Programmatic Updates



#### Bureau of Addiction Prevention and Mental Health Promotion

Mission: To reduce substance use and abuse and promote behavioral health across the lifespan of Indiana citizens by maintaining a coordinated, effective, and accountable system of prevention and behavioral health promotion services.



Bureau of Addiction Prevention and Mental Health Promotion

Vision: Sustainable environments that nurture, assist, and empower all Indiana citizens to access and experience optimum physical, emotional, and mental health.



#### Bureau of Addiction Prevention and Mental Health Promotion

Prevention utilizes elements of the public health model for planning and service delivery and consists of inclusive practices, policies and programs which provide individuals, families, and communities with necessary support to minimize the misuse of alcohol, tobacco and other drugs and maximize overall well-being.



#### Funding Sources for Prevention at DMHA





#### Substance Abuse Block Grant SFY18

- 14 county level communities (Allen, Bartholomew, Clark, Delaware, Fayette, Floyd, Kosciusko, Lake, Madison, Miami, Morgan, St. Joseph, Vanderburgh, Wayne)
- Project LEAD
- Indiana prevention resource center
- State epidemiological outcomes workgroup
- Indiana NOFAS
- Collegiate needs assessment
- Baby and me tobacco free
- Indiana coalition to reduce underage drinking
- Intuitive Synergies



#### Partnerships for Success

- 10 counties (Cass, Clark, Floyd, Knox, Lake, Madison, Marion, Porter, Scott, Vanderburgh)
- Data collection
- Evaluation and capacity building for 10 counties



#### Synar

- Retailer Violation Program
- 14.6% rate reported in Annual Synar Report for 2018



#### **State Targeted Response**

- Anti stigma campaign during SFY18
- Naloxone/Narcan support



# Strategic Planning Process



#### Data Collection Key Informant Interviews, Listening Sessions and Prevention Congress





#### Common Themes from Key Informant Interviews

- Duplication of effort
- Funding availability
- Largely political
- Not allowing needed time to make change
- Too many hoops to jump through
- Understaffed/ Not enough professional staff and volunteer support



#### Common themes from Listening Sessions

- A stronger focus on long-term effective solutions that would create a decrease in adverse childhood experiences.
- Communities become more connected with each other and their shared outcomes, ensuring that youth and families were reaching their full potential.



#### Common themes from Listening Sessions

- Substance abuse prevention efforts that lead individuals/citizens/Indiana youth to develop greater self-worth and the ability to employ coping skills.
- State and community leaders must be a part of an overall strategic plan
- Limited funding remains an issue
- Need to focus on communication modalities and community/social norms



#### Common themes from Listening Sessions

- Need to strengthen the present training and technical assistance capacity to reach beyond the current providers and develop multiple platforms for the process of technical assistance and training regarding environmental strategies
- Request to: "Work with us, inform us of the issues, what the state is thinking and get the local input."



#### Common Themes from Listening Sessions

- A road map to build stakeholder support for prevention
- A plan to engage stakeholders for prevention efforts for the next five years.
- Proposed solutions to the communication issues that focus on the environment and community norms.



#### Common Themes from the Prevention Congress

- A road map to build stakeholder support for prevention
- A plan to engage stakeholders for prevention efforts for the next five years.
- Proposed solutions to the communication issues that focus on the environment and community norms.



#### Data collection efforts

Strategic Prevention Framework



Regional Support



#### A call to action and application



# Substance Use in Indiana: Panel Discussion

Facilitator: Joshua Vest, PhD, MPH

Panelists: Joan Duwve, MD, MPH Dennis Watson, PhD Ben Gonzales





#### Thank you for your attendance.

#### Please complete the evaluation form.



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