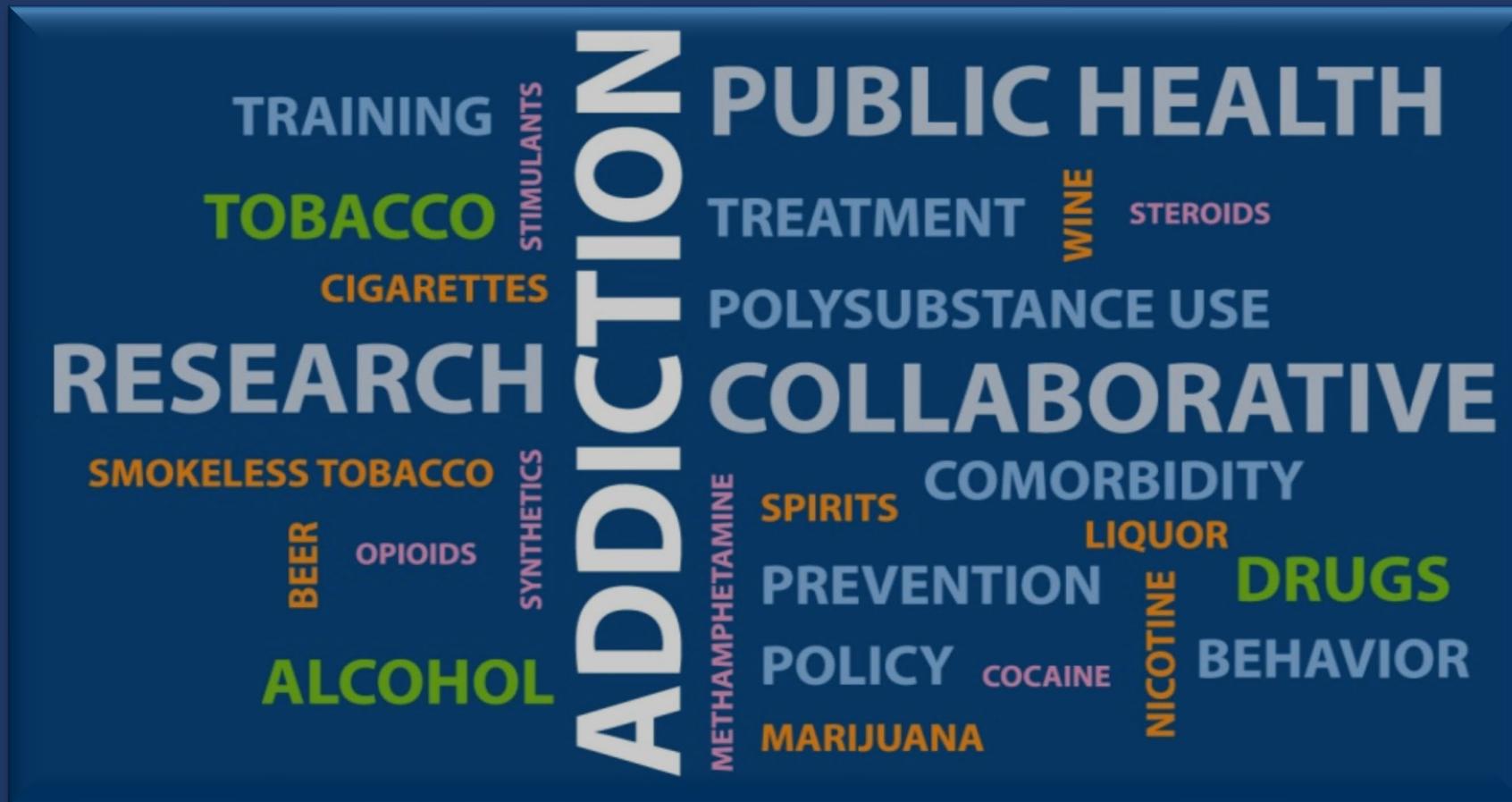


# NIDA Director's Report to the CRAN Joint Council



May 15, 2019



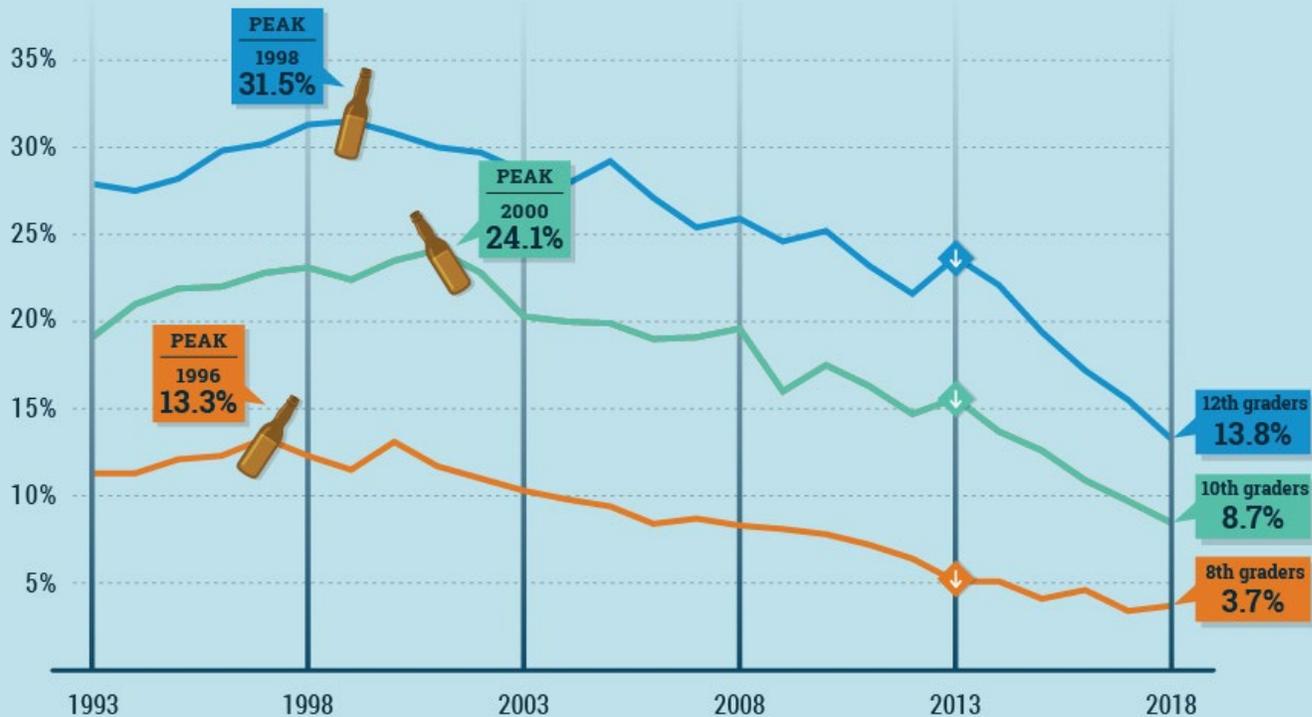
Nora D. Volkow, M.D., Director NIDA

 @NIDAnews

# NIDA BUDGET

	<b>FY 2018 Actuals</b>	<b>FY 2019 Enacted</b>	<b>FY 2020 PB</b>
<b>NonAIDS</b>	\$854,609,000	\$893,402,000	
<b>AIDS</b>	\$269,765,000	\$264,814,000	
<b>Total</b>	\$1,124,374,000	\$1,158,216,000	\$796,379,000
<b>Opioids</b>	\$250,000,000	\$250,000,000	\$250,000,000

## BINGE DRINKING\* RATES CONTINUE DOWNWARD TREND

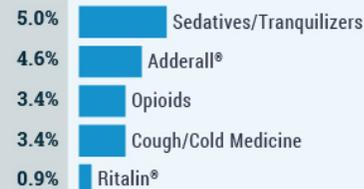


\*Binge drinking is defined as having 5 or more drinks in a row in the last 2 weeks.

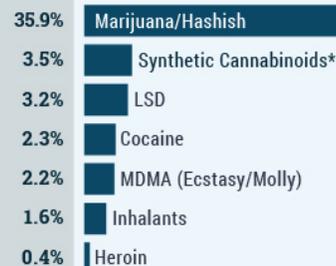
**BINGE DRINKING: SIGNIFICANT DROP IN PAST FIVE YEARS ACROSS ALL GRADES.**

## PAST-YEAR MISUSE OF PRESCRIPTION/OVER-THE-COUNTER VS. ILLICIT DRUGS

### PRESCRIPTION/OTC

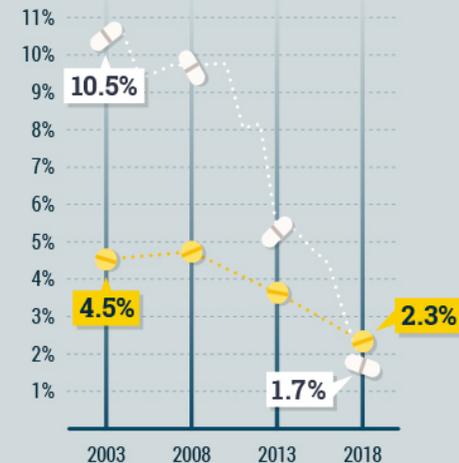


### ILLICIT DRUGS



Past-year use among 12th graders

### VICODIN® VS. OXYCONTIN®



Past-year misuse of Vicodin® and OxyContin® among 12th graders has dropped dramatically in the past 15 years.

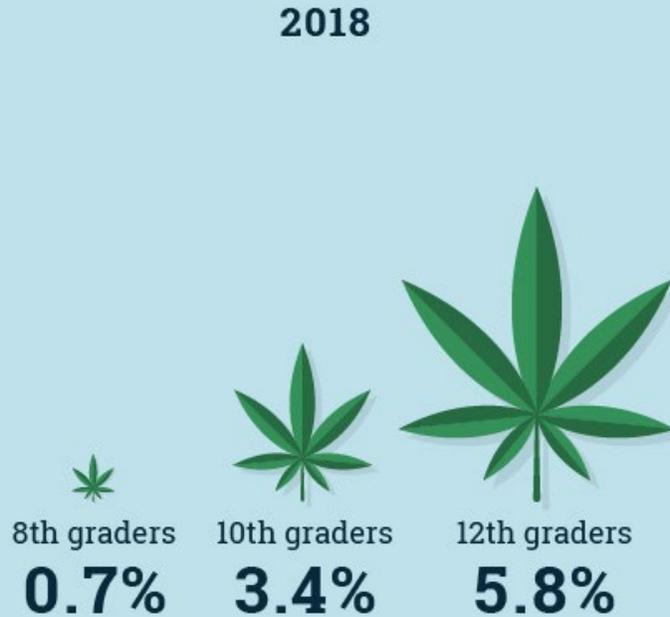
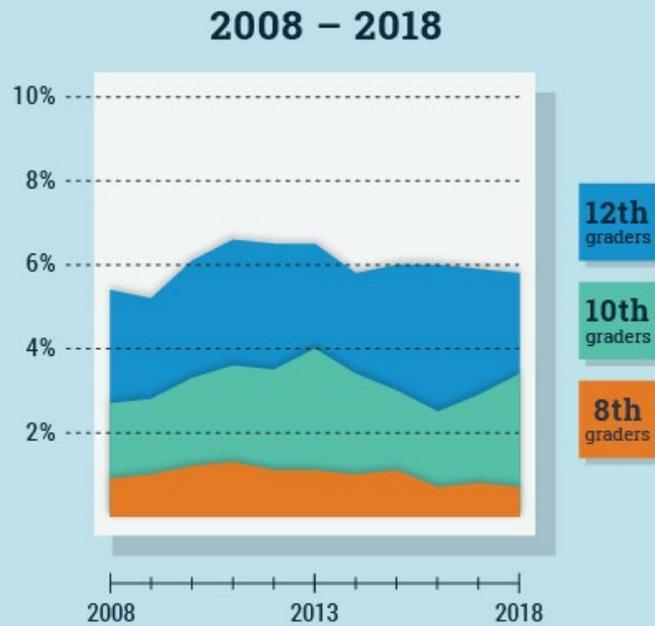
KEY  
 Vicodin®  
 OxyContin®

## STUDENTS REPORT LOWEST RATES SINCE START OF THE SURVEY

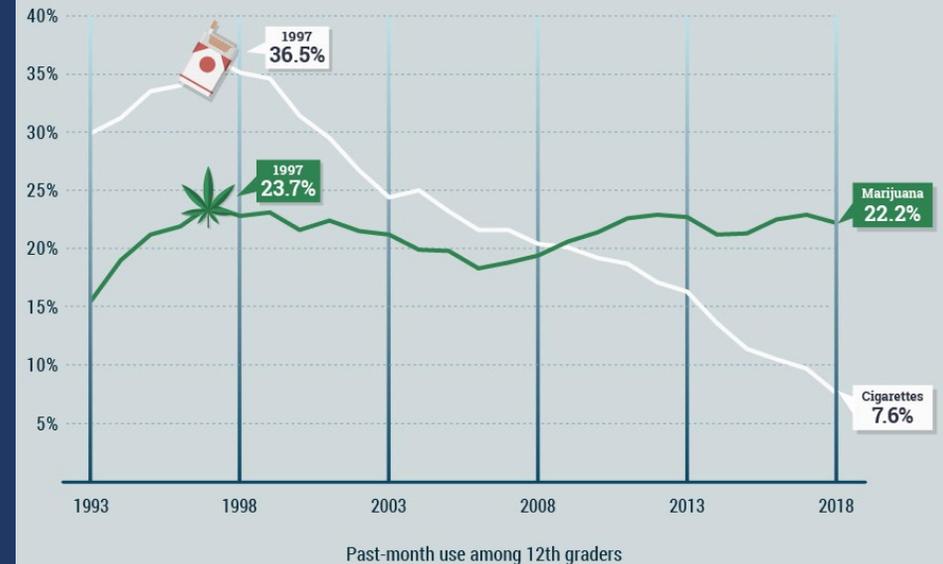
Across all grades, past-year use of illicit drugs other than marijuana holding steady at the lowest levels in over 20 years.

\*Synthetic cannabinoids are called "synthetic marijuana" in the survey.

## DAILY MARIJUANA USE MOSTLY STEADY



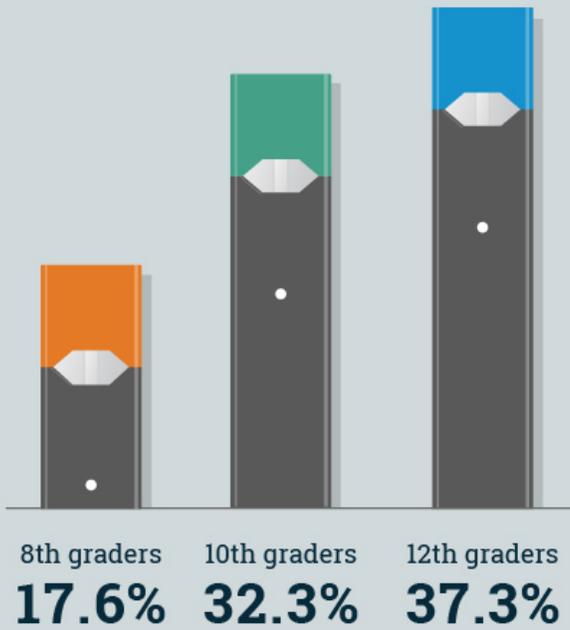
## TEENS MORE LIKELY TO USE MARIJUANA THAN CIGARETTES



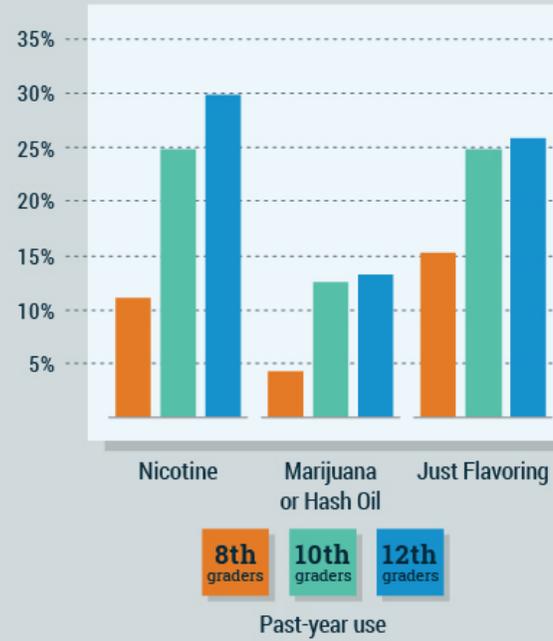
FIVE-YEAR TRENDS IN DAILY MARIJUANA USE REMAINS STEADY FOR 10TH AND 12TH GRADERS BUT SHOWS A DECLINE IN 8TH GRADERS.

# TEENS USING VAPING DEVICES IN RECORD NUMBERS

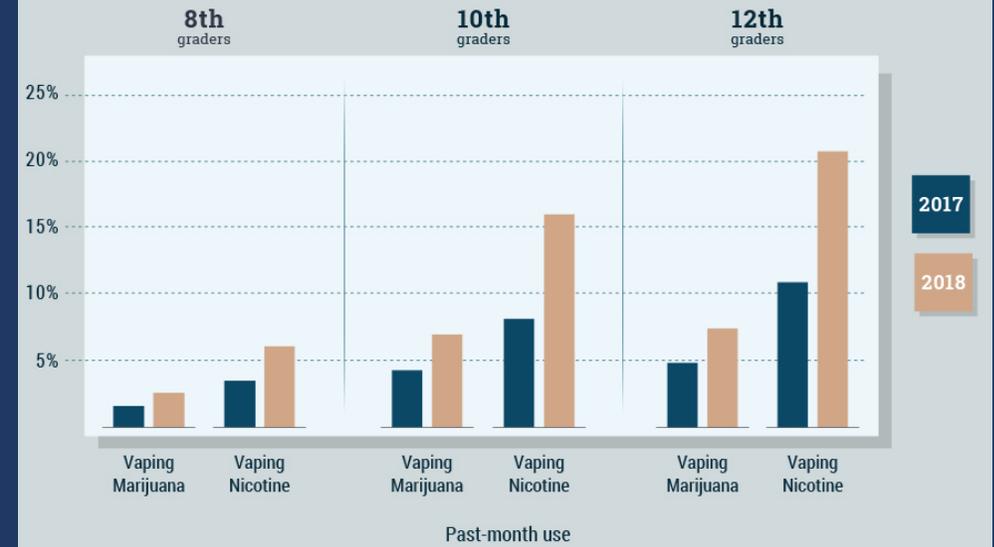
## PAST-YEAR VAPING



## WHAT DO TEENS SAY THEY ARE VAPING?



## TEENS VAPING NICOTINE OR MARIJUANA INCREASED ACROSS ALL GRADES

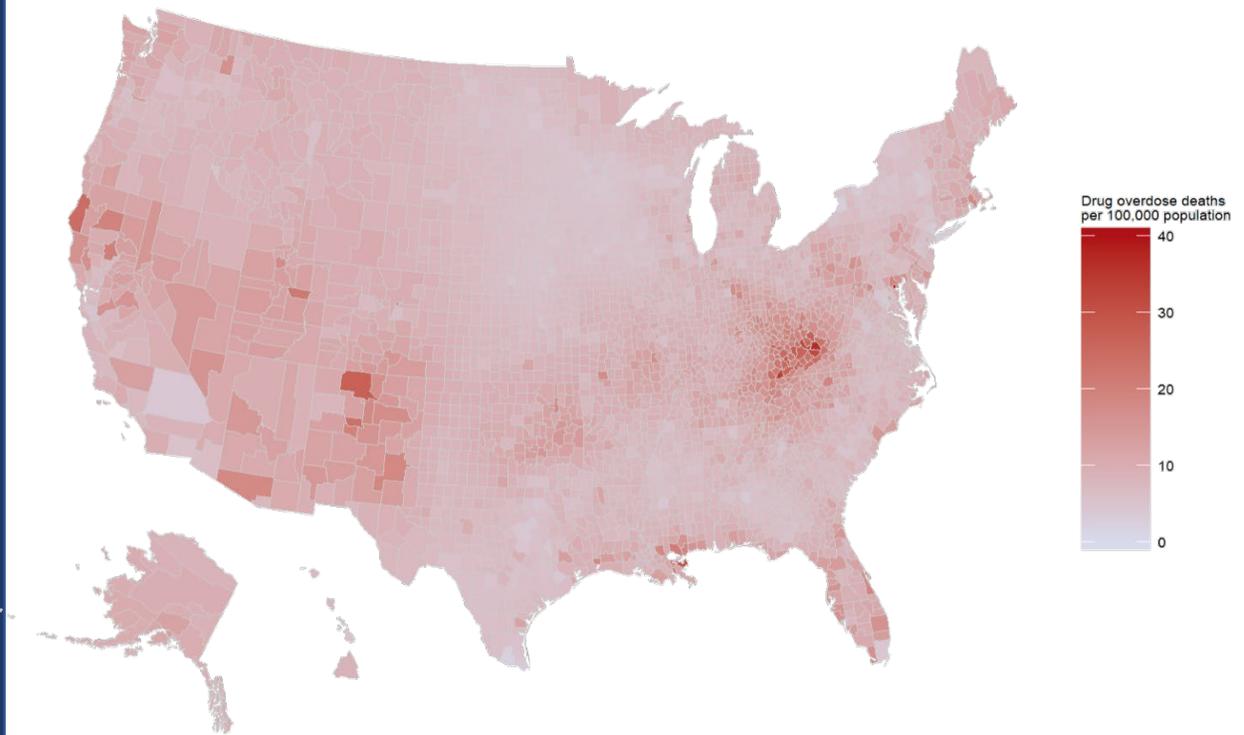


NEARLY 2 IN 5 STUDENTS IN 12TH GRADE REPORT PAST-YEAR VAPING, RAISING CONCERNS ABOUT THE IMPACT ON BRAIN HEALTH AND POTENTIAL FOR ADDICTION.

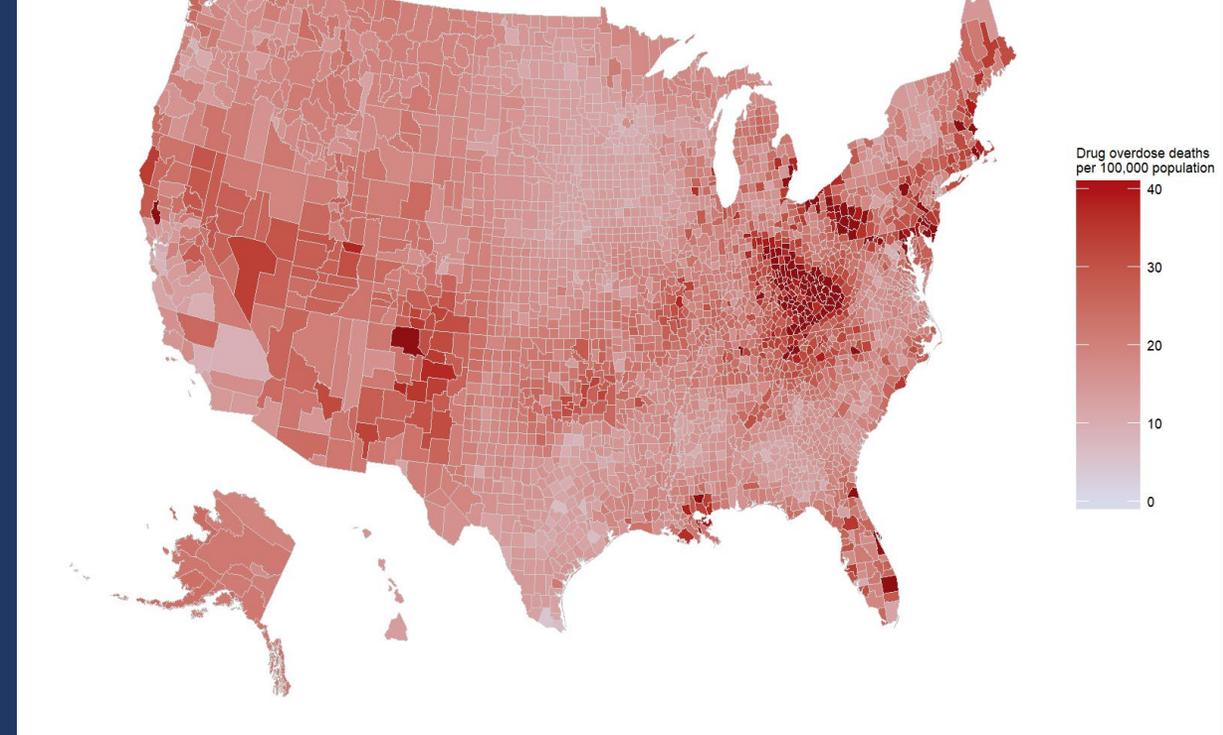
PAST-MONTH VAPING OF NICOTINE OR MARIJUANA JUMPED ACROSS ALL GRADES. PAST-MONTH USE OF MARIJUANA IS STEADY AS CIGARETTE USE DECLINES.

# Opioid Overdose Deaths in the US

2003



2017



**SOURCE:** National Center for Health Statistics, National Vital Statistics System, mortality data (<http://www.cdc.gov/nchs/deaths.htm>).

**SUGGESTED CITATION:** Rossen LM, Bastian B, Warner M, Khan D, Chong Y. Drug poisoning mortality: United States, 2003–2017. National Center for Health Statistics. 2019. (Available from: <https://www.cdc.gov/nchs/data-visualization/drug-poisoning-mortality/>).

# HELPING END ADDICTION LONG TERM<sup>SM</sup> (HEAL) Initiative



## ENHANCING PAIN MANAGEMENT

Advance Effective Treatments For Pain Through Clinical Research

Accelerate Discovery And Development Of Pain Treatments

## IMPROVING TREATMENTS FOR MISUSE AND ADDICTION

Expand Therapeutic Options

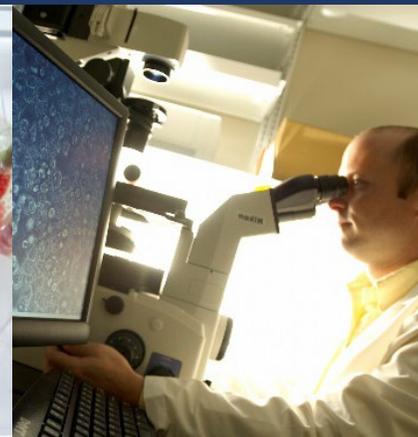
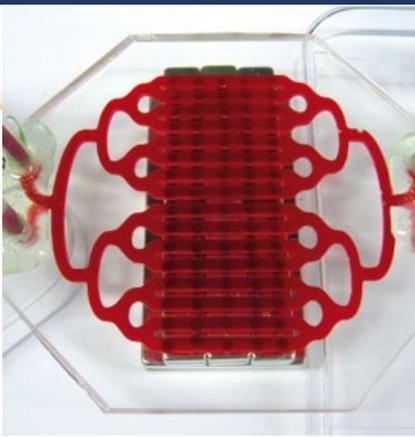
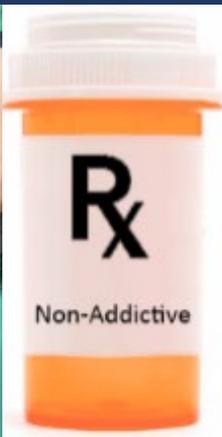
Enhance Treatments for Infants with NAS/NOWS

Develop New and Improved Prevention & Treatment Strategies

Optimize Effective Treatments

# *Enhancing Pain Management* Advancing the Fundamental Science

- Discover, validate novel targets for pain treatment
  - Focus on non-opioid alternatives
- Engineer preclinical screening platforms, novel drug development
  - Tissue chips, 3D-printed organoids, stem cell-derived neurons
- Improve understanding of transition from acute to chronic pain
  - Find acute-to-chronic pain signatures



# *Enhancing Pain Management* **Advancing Effective Treatments**

- Establish unprecedented clinical trials network to test wide range of strategies for management of multiple different pain syndromes
  - Drugs, biologics, natural products, devices, mind-body approaches, etc.
  - Industry agrees to make available dozens of promising pain treatments
- Develop ways to make pain management data more widely accessible
  - To speed clinical translation
  - To encourage innovative partnerships



# Priority Research Areas

## OD

EXPAND THERAPEUTIC  
OPTIONS

OPTIMIZE EFFECTIVE  
TREATMENT STRATEGIES

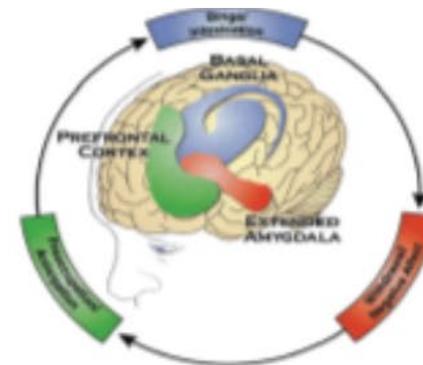
DEVELOP NEW/IMPROVED  
PREVENTION & TREATMENT  
STRATEGIES

ENHANCE TREATMENTS  
FOR INFANTS WITH  
NAS/NOWS

# EXPAND THERAPEUTIC OPTIONS: OUD

## ADDICTION CYCLE AND RELEVANT BRAIN REGIONS

Transcranial  
Magnetic  
Stimulation  
(TMS)



Transcranial Direct  
Current Stimulation  
(tDCS)



Deep Brain  
Stimulation  
(DBS)



**OPTIMIZE EFFECTIVE  
TREATMENT  
STRATEGIES: CLINICAL  
TRIALS NETWORK  
EXPANSION PROJECT**



**OPTIMIZE EFFECTIVE  
TREATMENT STRATEGIES:  
JUSTICE AND COMMUNITY  
OPIOID NETWORK (JCOIN)**

# The HEALing Communities Study: Integrating Evidence Based interventions across Settings

## Healthcare

- Primary care
- Emergency departments
- Inpatient hospital care
- Behavioral health

## Criminal Justice

- Jails
- Prisons
- Parole/Probation
- Drug courts

## Community

- Families
- Schools
- Police and fire departments
- Faith-based organizations
- Local industry





# HEALTHY BRAIN AND CHILD DEVELOPMENT (HBCD) STUDY

Large multi-site longitudinal study to examine brain, cognitive, behavioral, social, and emotional development beginning prenatally and extending through childhood.

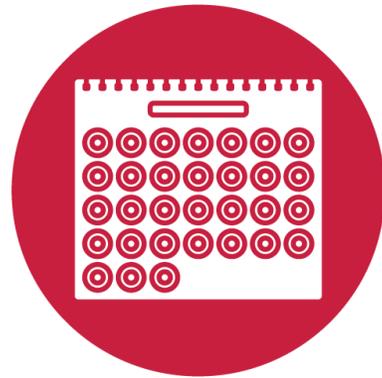
Oversample for prenatal opioid exposure





National Institutes of Health  
National Center for Complementary and Integrative Health

# Pain in the U.S.



**25.3 million**  
American adults  
suffer from daily pain



**23.4 million**  
American adults  
report a lot of pain

Nahin RL. Estimates of Pain Prevalence and Severity in Adults: United States, 2012, *Journal of Pain* (2015), doi: 10.1016/j.jpain.2015.05.002.