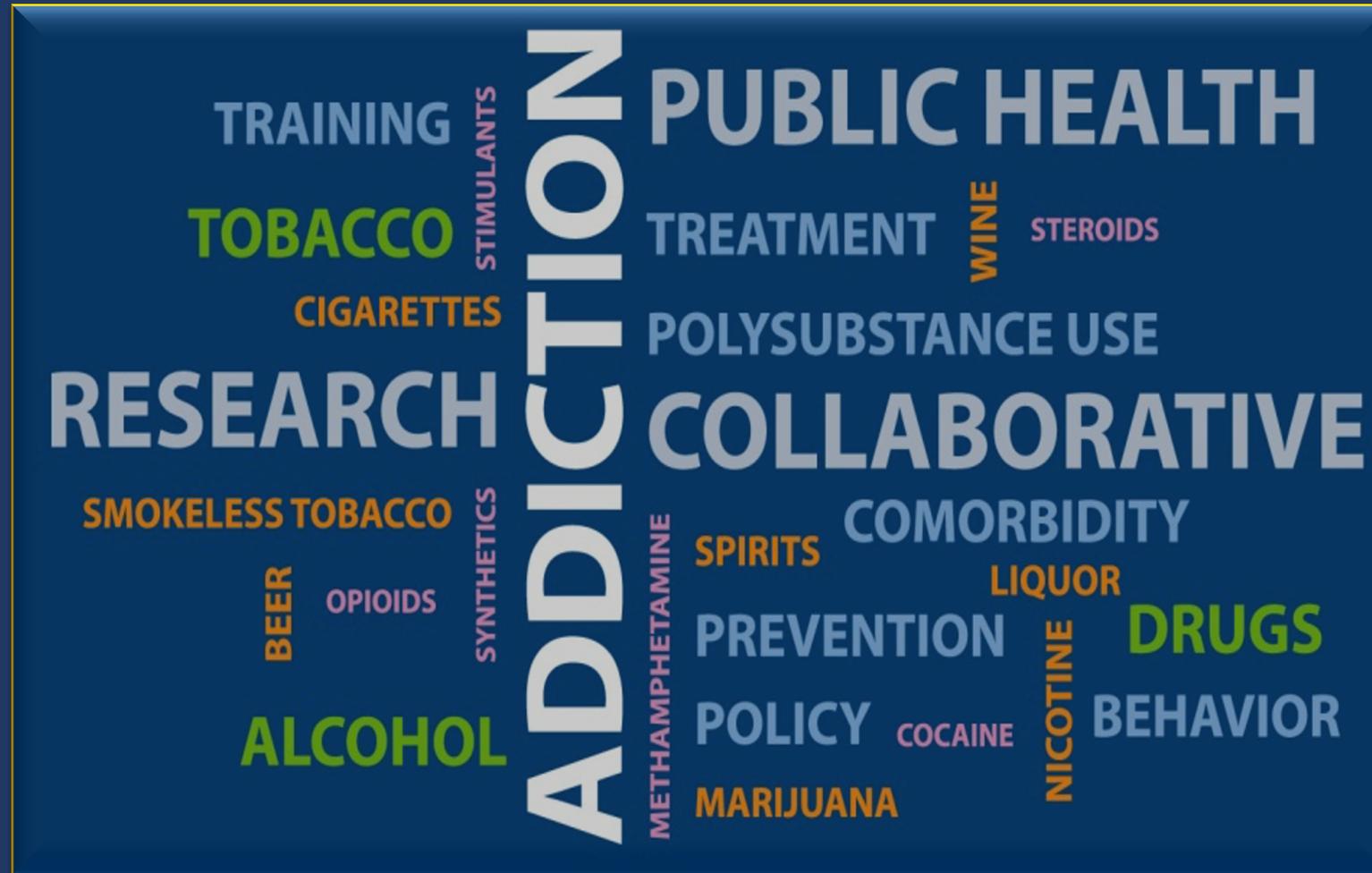


NIDA Director's Report to the CRAN Joint Council



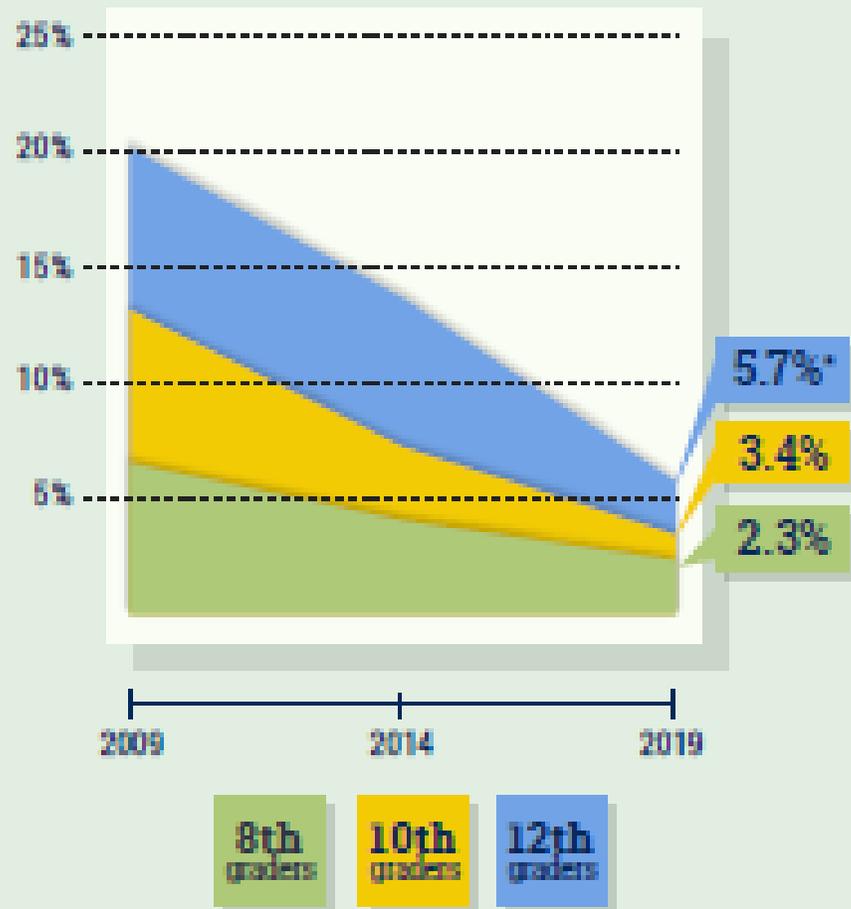
May 13, 2020



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

 @NIDAnews

CIGARETTE SMOKING (PAST MONTH) DECLINES OVER PAST TEN YEARS

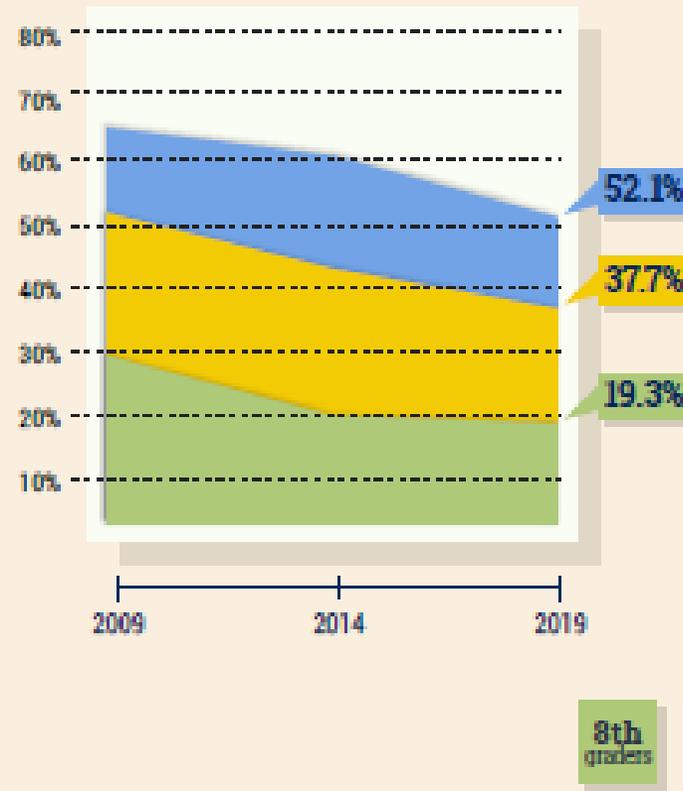


*Significant decline from 2018 (7.6%)

ALCOHOL USE CONTINUES ITS DECLINE

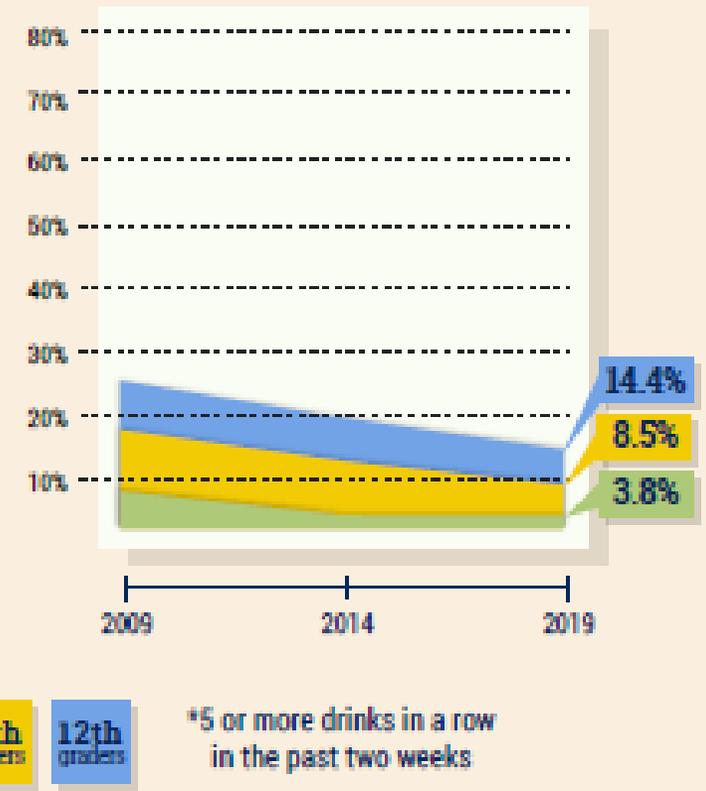
PAST YEAR ALCOHOL USE

Significant long-term decrease in all grades



BINGE DRINKING*

Significant long-term decrease in all grades



*5 or more drinks in a row in the past two weeks

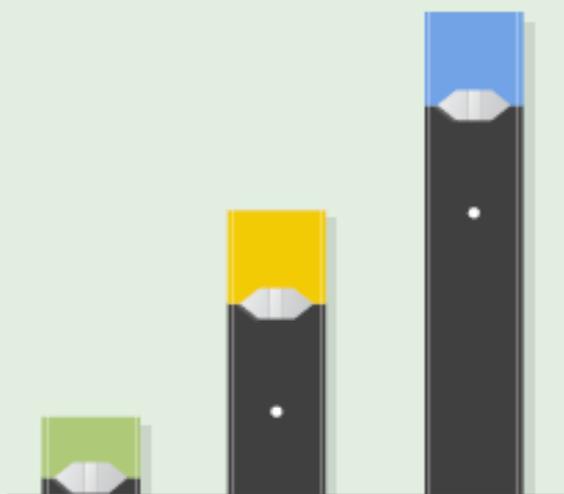
SOURCE: University of Michigan, 2019 Monitoring the Future Study

Significant Increases in Teens VAPING

NICOTINE

DAILY NICOTINE VAPING¹

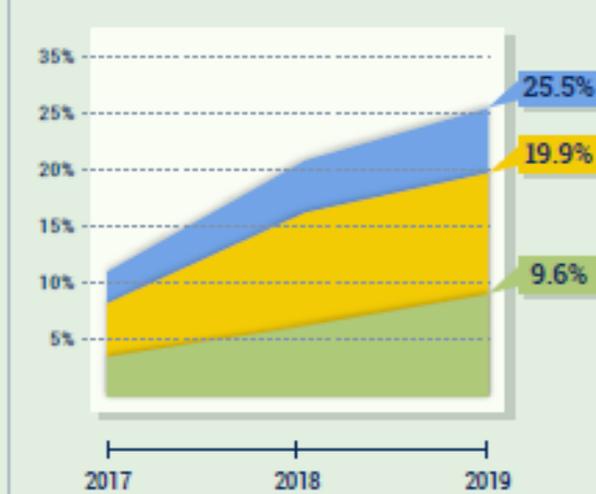
Measured for the first time in 2019



8th graders 1.9%
10th graders 6.9%
12th graders 11.7%

NICOTINE VAPING

Past month use



8th graders 9.6%
10th graders 19.9%
12th graders 25.5%

1. Miech R, Johnston L, O'Malley PM, Bachman JG, Patrick ME. Trends in adolescent vaping, 2017–2019. *N Engl J Med* 2019; 381:1490-1491

2019 Past Month Nicotine Vaping Equates to:

1 IN 4 – 12TH GRADERS • 1 IN 5 – 10TH GRADERS • 1 IN 10 – 8TH GRADERS

THC

THC VAPING

Past month use



8th graders 3.9%
10th graders 12.6%
12th graders 14%*

DAILY THC VAPING

Measured for the first time in 2019



8th graders 0.8%
10th graders 3.0%
12th graders 3.5%

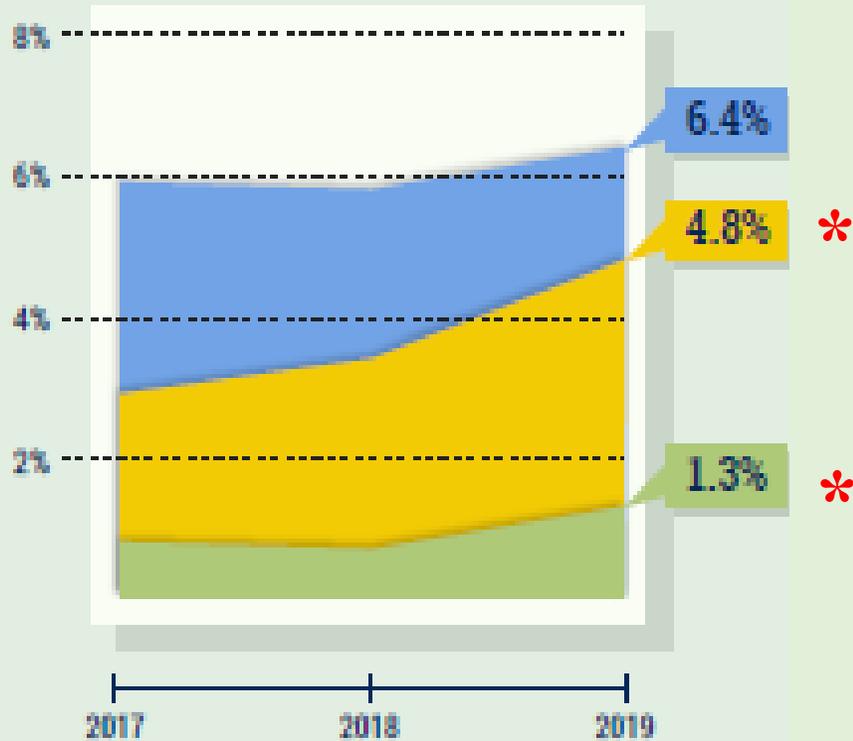
*2018 – 2019 INCREASE IS THE SECOND LARGEST ONE-YEAR JUMP EVER TRACKED FOR ANY SUBSTANCE IN THE 45-YEAR SURVEY HISTORY (NICOTINE VAPING WAS THE LARGEST FROM 2017 – 2018)

SOURCE: University of Michigan, 2019
Monitoring the Future Study

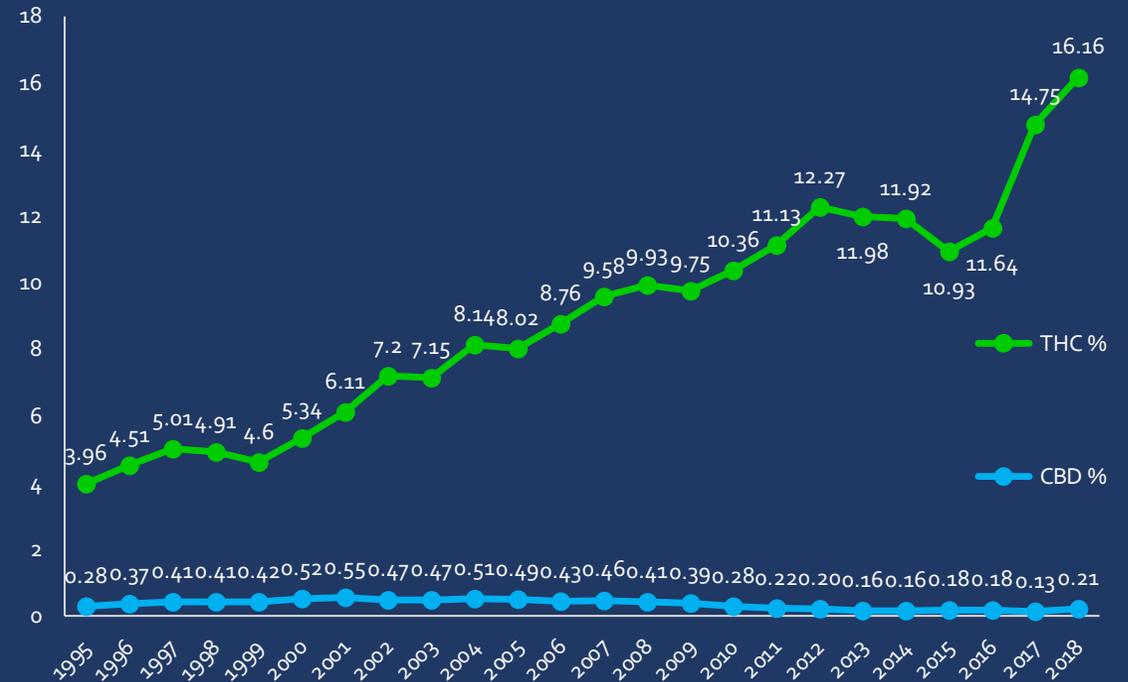
Daily Marijuana Increased in Teenagers

DAILY MARIJUANA USE

sees significant increase among 8th and 10th graders since 2018



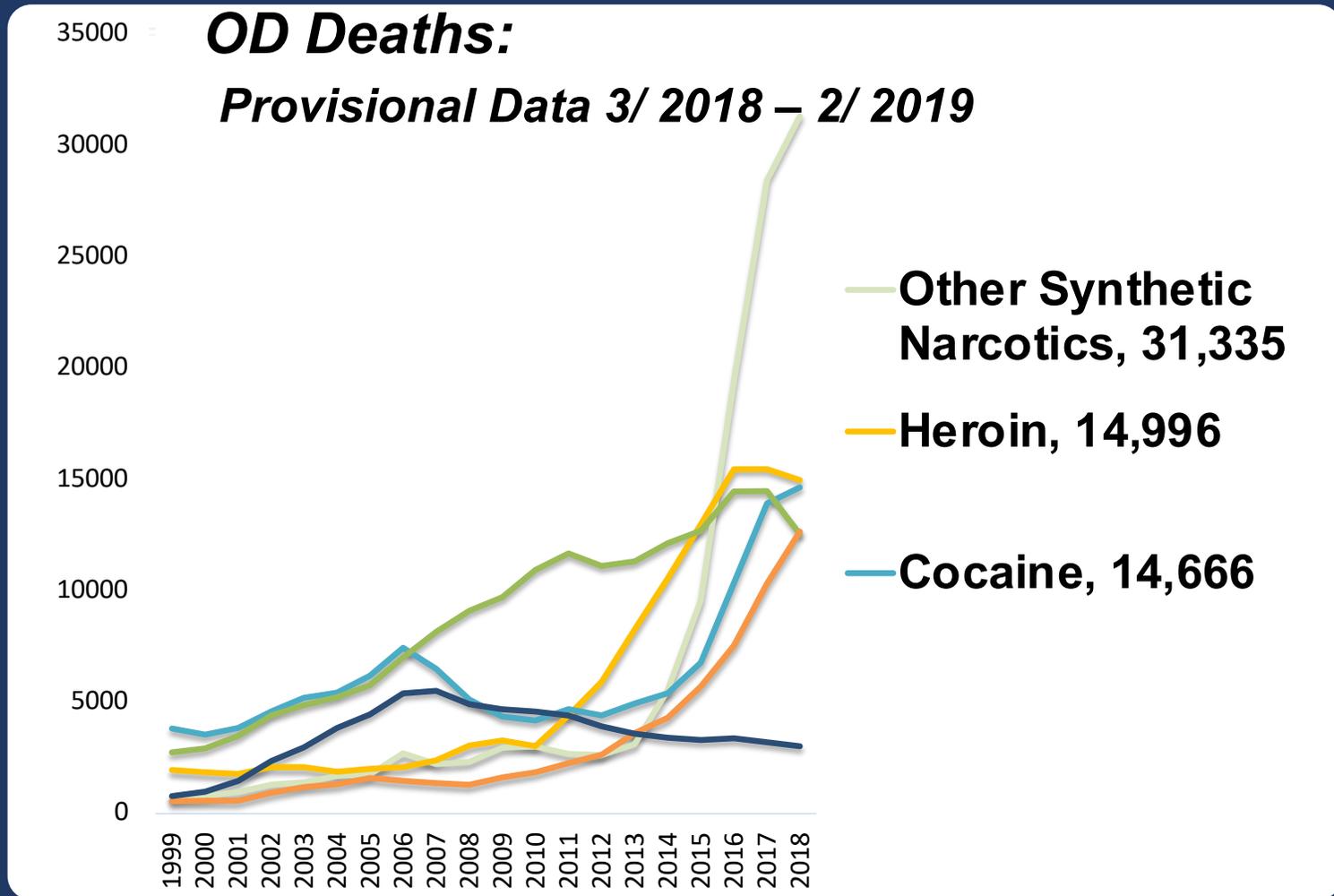
Cannabis Potency Tripled in Past 20 Years



SOURCE: University of Michigan, 2019 Monitoring the Future Study

OVERDOSE MORTALITY BY CLASS OF DRUG

ADAPTED FROM NCHS STATISTICS

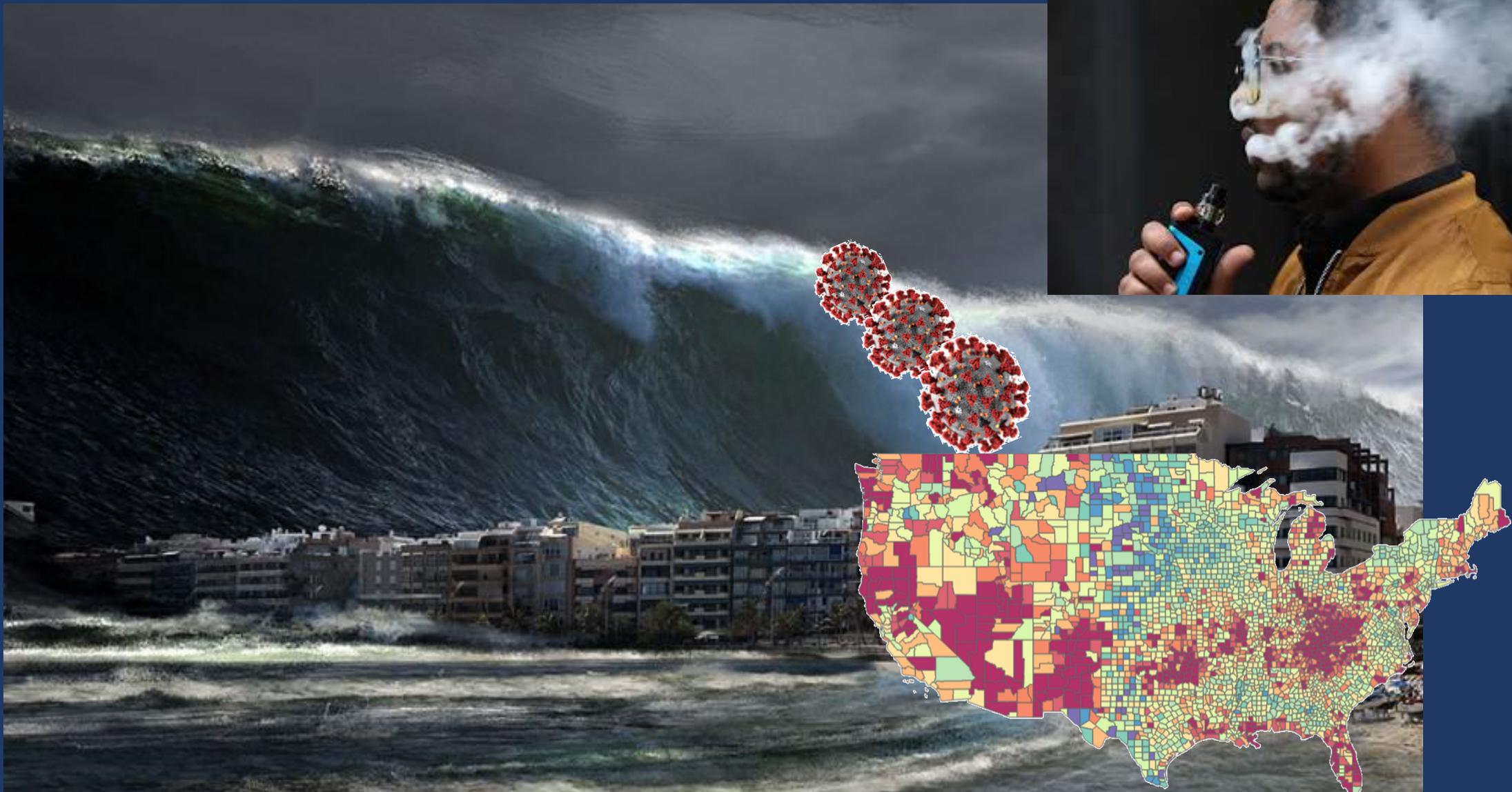


	HEROIN	NAT & SEMI – SYNTHETIC	METHADONE	SYNTHETIC OPIOIDS	COCAINE	OTHER PSYCHO-STIMULANTS
JUNE 2018 *	15,408	13,703	3,226	30,817	15,408	11,667
JUNE 2019 *	14,973	12,275	2,883	33,752	15,391	14,687
Change	-2.82%	-10.42%	-10.63%	9.52%	-0.11%	25.88%

* Number of predicted deaths for the 12 months ending in June of the indicated year

CDC National Vital Statistics System, January 15, 2020

Intersection Between COVID-19 and SUD



Interactions between Drugs, SUD and COVID

- **Stress**
- **Pharmacological Factors**
 - **Acute**
 - **Chronic**
- **Structural Factors**
 - **Access to Treatment Programs**
 - **Access to Peer-support groups**
 - **Isolation**
 - **Access to Community Services**
- **Social factors**
 - **Stigmatized Disease**
 - **Homelessness**
 - **Criminalization**

Nicotine Patch

French researchers reported smokers were less likely to contract COVID-19



Worse COVID outcomes among smokers

Notice of Special Interest (NOSI) regarding the Availability of Administrative Supplements and Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus Notice Number: NOT-DA-20-047

- Key Dates

Release Date: March 19, 2020

First Available Due Date: March 19, 2020

Expiration Date: March 31, 2021

- Related Announcements

[PA-18-935](#) Urgent Competitive Revision to Existing NIH Grants and Cooperative Agreements (Urgent Supplement - Clinical Trial Optional)

[PA-18-591](#) Administrative Supplements to Existing NIH Grants and Cooperative Agreements (Parent Admin Supp Clinical Trial Optional)

- Issued by

National Institute on Drug Abuse ([NIDA](#))

- Purpose

- NIDA is issuing this Notice of Special Interest (NOSI) to highlight the urgent need for research on the 2019 Novel Coronavirus (2019-nCoV, also known as COVID-19). NIDA is especially interested in research collecting and examining data on the risks and outcomes for COVID-19 infection in individuals suffering from SUD.

COVID-19, Fetal and Neonatal Consequences



*HEAL*thy Child and Brain Development Study

TWO CENTRAL QUESTIONS

What are the developmental effects of prenatal opioid and other substance use exposures on children from birth through middle childhood?

What are the “typical” or “normative” developmental trajectories for children from birth through middle childhood?

Q1: EXPOSURES 

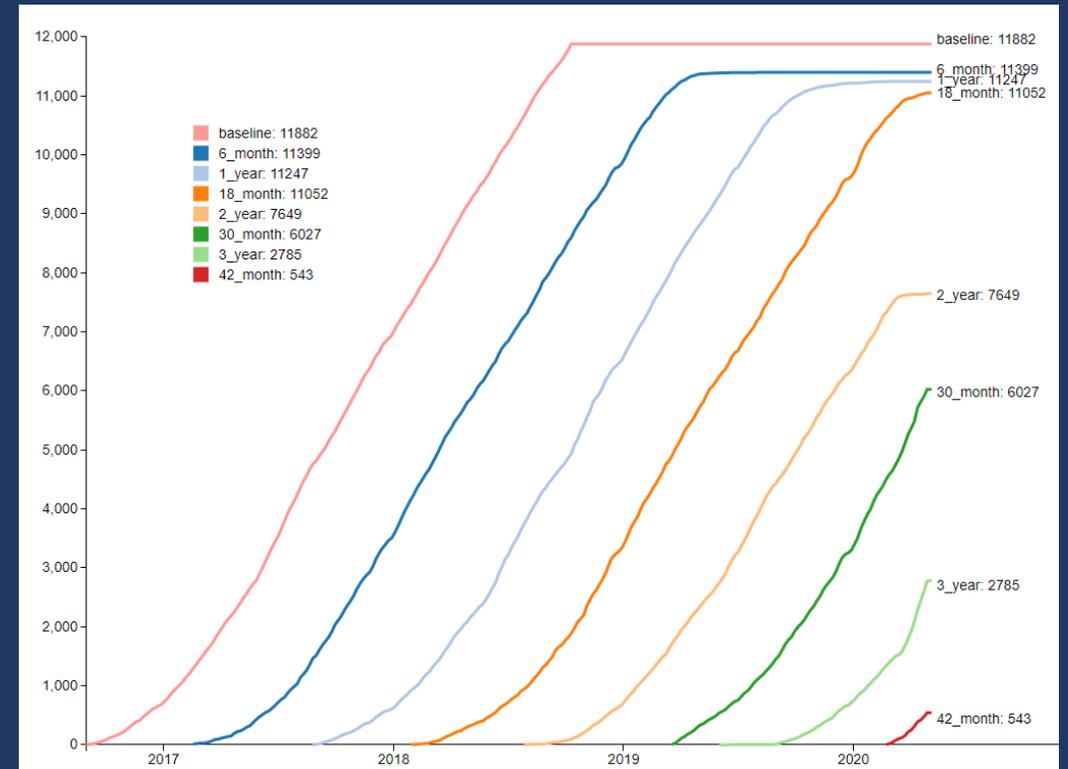
 **Q2: DEVELOPMENT**

- ***Approved 8 supplements to HBCD PIs for COVID-19 related research***

COVID-19, Children and Adolescents

Adolescent Brain Cognitive Development (ABCD) Study

98.9 Percent Retained

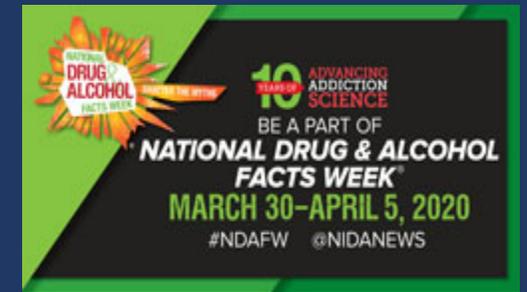


COVID-19

- In-person visits stopped
- Paused 2-year follow-up visits
- Virtualized 3-year follow up
- Supplements to assess COVID-19 impact (details tomorrow)

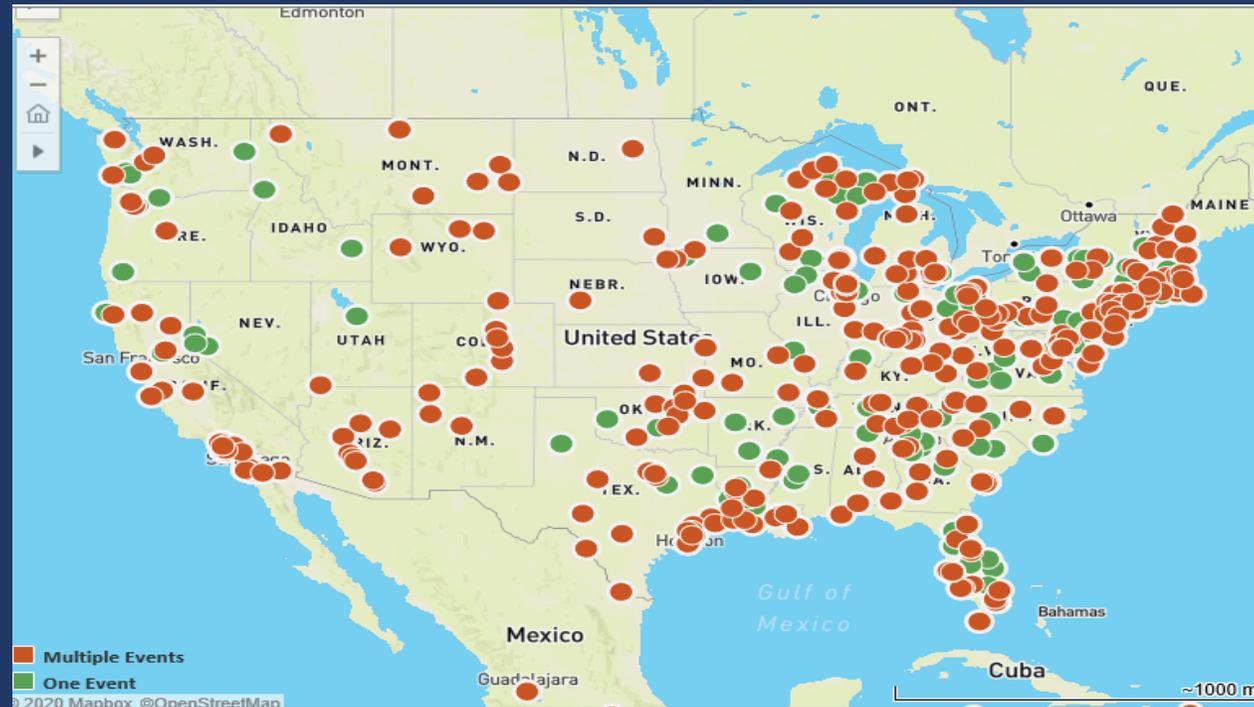
NATIONAL DRUG & ALCOHOL FACTS WEEK

March 30 to April 5, 2020



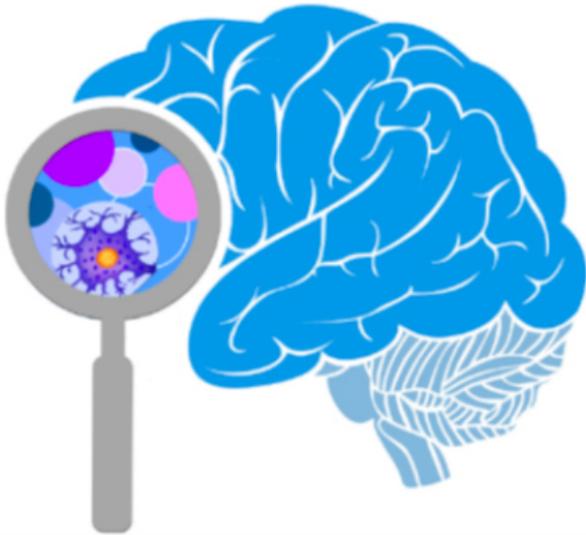
Record year when due to COVID-19 we went totally virtual.

2,733 registered events representing 50 states + DC, and 11 countries.



Virtual BRAIN Initiative Investigators' Meeting

SIXTH ANNUAL BRAIN Initiative®
Investigators Meeting



JUNE 1-2, 2020

- Creating a community, regardless of funding source
 - Registration open through May 29!
 - www.braininitiative.org/events/pimeeting
- Meeting features:
 - 4 Plenary talks and 8 attendee-organized symposia
 - Virtual poster hall, exhibit hall, and networking room
 - Special session highlighting the Trainee Awards
 - Science communications specialty sessions
 - Scientific photo and video competition
 - On-demand content for 12 months after the event

Notice to **Extend the Expiration Date for PA-17-132** "Public Policy Effects on Alcohol-, Marijuana-, and Other Substance-Related Behaviors and Outcomes (R21)"

(NOT-AA-20-008)

Notice to **Extend the Expiration Date for PA-17-134** "Public Policy Effects on Alcohol-, Marijuana-, and Other Substance-Related Behaviors and Outcomes (R03)"

(NOT-AA-20-009)

Notice to **Extend the Expiration Date for PA-17-135** "Public Policy Effects on Alcohol-, Marijuana-, and Other Substance-Related Behaviors and Outcomes (R01)"

(NOT-AA-20-010)

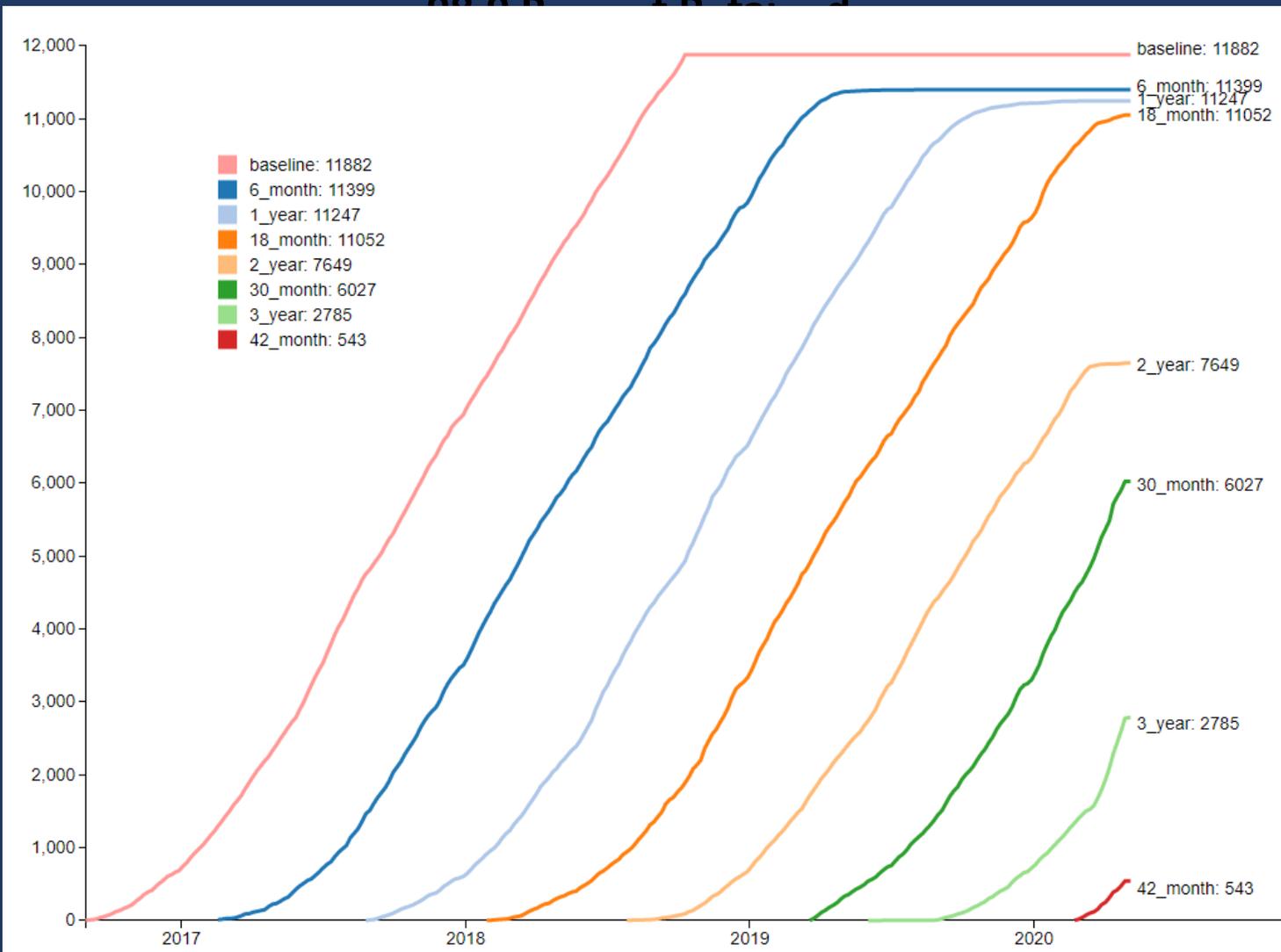
Wave 2 Alcohol Use Outcomes By E-cigarette/Cigarette Dual Use Groups

Hazardous alcohol use (n=26,281)				
	<i>aOR</i>	<i>95% CI</i>	<i>P</i>	<i>Contrast</i>
E-cigarette user	2.11	1.56; 2.86	<0.001	
Cigarette user	2.05	1.82; 2.32	<0.001	
Dual User	2.12	1.85; 2.42	<0.001	
Number of Alcohol Consequences (n=25,473)				
	<i>B</i>	<i>95% CI</i>	<i>P</i>	<i>Contrast</i>
E-cigarette user	0.62	0.16; 1.09	0.010	
Cigarette user	0.94	0.75; 1.13	<0.001	
Dual User	0.89	0.62; 1.15	<0.001	
Past month-total drinks (n=26,281)				
	<i>B</i>	<i>95% CI</i>	<i>P</i>	<i>Contrast</i>
E-cigarette user	0.46	0.26; 0.66	<0.001	
Cigarette user	0.70	0.58; 0.82	<0.001	Cigarettes > e-cigarettes
Dual User	0.78	0.60; 0.96	<0.001	Dual Use > e-cigarettes

In the US between 2013 and 2015, after adjustment for socio-demographic characteristics, cigarette and e-cigarette use were associated with alcohol use 1 year later.

**Non-users of both products are the reference for each analysis; Each model controlled for age, education, sex, race/ethnicity, and geographical region; controlled for respective alcohol use outcome at wave 1.*

Adolescent Brain Cognitive Development (ABCD) Study



COVID-19

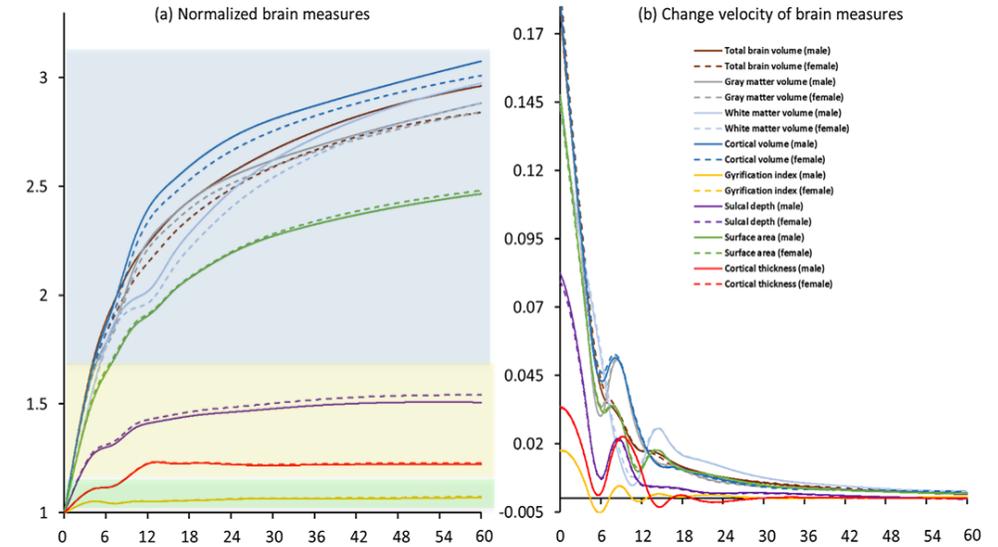
- In-person visits stopped mid-March
- Paused 2-year follow-up visits
- Virtualized 3-year follow up
- Assessing COVID-19 impact
- More details tomorrow

ABCD Data Release 3.0 on Track for Summer 2020

- Full cohort 6-month follow-up
- Full cohort 1-year follow-up
- Interim data:
 - 18-month
 - 2-year (imaging)
 - 30-month

HEALthy Child and Brain Development Study

- **Approved 8 supplements to HBCD PIs for COVID-19 related research**



TWO CENTRAL QUESTIONS

What are the developmental effects of prenatal opioid and other substance use exposures on children from birth through middle childhood?

Q1: EXPOSURES 

What are the “typical” or “normative” developmental trajectories for children from birth through middle childhood?

Q2: DEVELOPMENT 

Opportunities From The Pandemic?

- Increased use of **telemedicine**
- New **research** into remote medical practices (rural)
- Establishment of **mental health hot lines**
- Deployment of **virtual support meetings**
- Possibility of **take-home medicines** for MOUD
- Release on non-violent offenders with SUD from **jails and prisons**, which might improve their long-term outcomes
- Development of web-based **educational material** that can be used to help in rehabilitation