Director's Report to the National Advisory Council on Drug Abuse

Nora D. Volkow, M.D.

Director National Institute on Drug Abuse February 8, 2022



NIDA BUDGET

	FY 2021 Final (\$k)	FY 2022 PB (\$k)	FY 2023 PB (\$k)
Base	\$1,206,321	\$1,447,060	TBD
HEAL	\$269,484*	\$405,443*	
Total	\$1,475,805	\$1,852,503	

*NIH's total HEAL funding is split evenly between NIDA and NINDS

FY 21 Funding Overview

Non-HEAL Research





*Includes all NIDA HEAL projects regardless of funding source



Search for new NIH Leadership?



Francis S. Collins, MD, PhD Retired as NIH Director



Lawrence Tabak, DDS, PhD Named Acting Director, NIH



NIH's COVID-19 Response

Our COVID-19 research response is helping to create safe and accurate tests, treatments, and vaccines.



Treatments and Vaccines NIH is speeding the development of the most promising vaccines and treatments.



Testing

NIH is working to create and distribute accurate, widely available COVID-19 tests.



NIH Strategic Response NIH's crosscutting strategies support research and innovation and ensure accessibility.

NIH The BRAIN Initiative BRAIN 2.0: Transforming Neuroscience





Ngai, Cell 2022





The BRAIN Initiative®

Save the Date!



Join us June 21-22, 2022 for the 8th Annual BRAIN Initiative Meeting!

Meeting website with registration and abstract submission opening soon!

<u>All</u> those interested in the U.S. BRAIN Initiative are encouraged to attend and participate.

Key Abstract Deadlines

- Symposia Abstract Submissions: ~Feb 25
- Trainee Highlight Awards Abstract Submissions: ~Mar 31
- General Abstract Submissions: ~May 16

https://braininitiative.nih.gov/News-Events/event/8th-annual-brain-initiative-meeting

Monitoring the Future Survey 2021



Decreases in use across most substances, including – alcohol, marijuana, and vaped nicotine

Past-Year Alcohol Use, Marijuana Use, and Vaping Nicotine for 2020 and 2021



2021 Monitoring the Future Survey.

Drug Use in College Age Adults in 2020 MTF



Adolescent Brain Cognitive Development Study

98.2 Percent Retained







Adolescent Brain Cognitive Development M

Teen Brains. Today's Science. Brighter Future.

Assessing Impact of COVID-19 including PASC in Adolescents



- COVID antibody testing of youth and caregiver
- Survey participants about COVID/PASC symptoms
 Infection effects vs general pandemic-related impacts
 Risk and resilience factors that modify 'infection-related' outcomes
 In-depth brain, cognitive, and mental health impacts

Adolescent Brain Cognitive DevelopmentSM Study Impact of the COVID-19 Pandemic



Journal of Adolescent Health Available reline 26 January 2022



Original article

The Pandemic's Toll on Young Adolescents: Prevention and Intervention Targets to Preserve Their Mental Health



Preventive Medicine Reports Volume 25, February 2022, 103685

Moderate-to-vigorous intensity physical activity among adolescents in the USA during the COVID-19 pandemic



Journal of Adolescent Health Volume 69, Issue 3, September 2021, Pages 390-397



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Early Adolescent Substance Use Before and During the COVID-19 Pandemic: A Longitudinal Survey in the ABCD Study Cohort

Biological Psychiatry: Global Open Science

Longitudinal Impact of Childhood Adversity on Early Adolescent Mental Health During the COVID-19 Pandemic in the ABCD Study Cohort: Does Race or Ethnicity Moderate Findings?

JAMA Pediatrics

Screen Time Use Among US Adolescents During the COVID-19 Pandemic

Findings From the Adolescent Brain Cognitive Development (ABCD) Study

Journal of Attention Disorders

Impact of COVID-19 on Youth With ADHD: Predictors and Moderators of Response to Pandemic Restrictions on Daily Life



Academic Pediatrics Available online 16 December 2021 In Press, Corrected Proof (*)



Parent-Adolescent Discrepancies in Adolescent Recreational Screen Time Reporting During the Coronavirus Disease 2019 Pandemic

As of February 2022



Longitudinal study to understand normative neurodevelopment from birth to 9-10 years and assess impact of in utero exposures to drugs and harmful environments





Impact of Pandemic on Early Childhood

Children born prior to Jan 2019 (pre-pandemic) vs after July 2020 (pandemic) after Control of age and Maternal Education



*2021 measures are significantly lower (p<0.001) than any other year in the past decade. An average decrease of **33** points across the composite values.

Sean Deoni et al., medRxiv 2021 Aug 11;2021 HBCD



Drug Overdose Deaths* Continue to Increase Into 2021

-	ALL DRUGS	HEROIN	NAT & SEMI SYNTHETIC	METHADONE	SYNTH ETIC OPIOIDS (mainly illicit fentanyl)	COCAINE	OTHER PSYCHO- STIMULANTS (mainly meth)
6/2020*	83,992	14,617	13,090	3,218	48,546	19,398	20,473
12/2020	91,799	13,165	16,416	3,543	56,516	19,447	23,837
6/2021*	101,263	11,054	13,845	3,743	64,977	21,266	29,346
Percent Change 6/20-6/21	20.6%	-24.4%	5.7%	16.3%	33.8%	9.6%	43.3%

*NCHS Provisional drug-involved overdose death counts are <u>PREDICTED VALUES</u>, 12 months ending in select months. <u>https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm</u>

Drug Overdose Death Rates by Race/Ethnicity



Novel Therapeutics OD and OUD



Longer acting MOR antagonists



Automatic naloxone autoinjector



mAntibodies Fentanyl



Breathing stimulators



Cellphone OD detection



Sequestrant drugs



Neuromodulation

VALUE Ladder:

Climbing out of

Valley of Death





Implementation Science: CTN, JCOIN, HCS, Prevention



Enhancing the National Drug Abuse Treatment Clinical Trials Network to Address Opioids Expand research conducted by NIDA CTN to address emergent needs presented by the opioid crisis.



Justice Community Opioid Innovation Network Study quality care for OUD in justice populations. Help create partnerships between local and state justice systems and community-based treatment providers.



HEALing Communities Study

HEALing Communities Study is

investigate coordinated approaches for deploying evidence-based strategies to prevent and treat OUD in 67 communities in 4 states.

HEAL- Integrative Management of Chronic Pain and OUD for Whole Recovery (IMPOWR) Network

Treatment Challenges: OUD + Pain

- Lack of evidence-based integrated treatments
- Services for patients with both CP and OUD is fragmented
- Limited resources, expertise, communication





- 9 Studies OUD Cascade of Care
- 6/9 studies targeting under-served populations
- Partner engagement on every study
- 8 trials emphasize implementation science to maximize reach and sustainability

Prevention Research to Close Evidence Gaps to Improve Screening and Early Interventions for Drug Use in Healthcare settings



Viewpoint

ONLINE FIRST FREE

January 27, 2022

Closing Evidence Gaps in Clinical Prevention A Report From the National Academies of Sciences, Engineering, and Medicine

Tracy A. Lieu, MD, MPH¹; Alexis Wojtowicz, BA²; Kathleen Stratton, PhD²

» Author Affiliations | Article Information

JAMA. Published online January 27, 2022. doi:10.1001/jama.2022.0849



F or more than 30 years, the US Preventive Services Task Force (USPSTF), supported by the Agency for Healthcare Research and Quality (AHRQ), has published internationally influential recommendations for clinical preventive services. For each topic it reviews, the USPSTF uses a rigorous structured process to assess available and emerging evidence to develop recommendations and issues a letter grade recommendation or an I statement for each. Grades A and B suggest clinicians offer or provide the preventive service, grade C suggests they offer it for select patients, and grade D suggests they not offer the service.¹ Topics receive I statements when the evidence is insufficient to recommend for or against a preventive service.

NIDA Racial Equity Initiative

Workplace

- Fall 2020 Climate Survey conducted; results analyzed by an external contractor to promote trust and objectivity of the results
- Survey provide meaningful baseline data as we continue our internal racial and ethnic equity initiatives.
- Focus groups with NIDA staff will be held this spring to address actionable findings.
- A follow-on survey will be launched in summer 2022.

Workforce

- NIDA Diversity Supplement Program
 Annual budget increased \$750K
 4 additional supplement apps from
 predoc & postdocs funded in FY 2021
- 3 supplements to support ESIs in Addiction Science and Related Neuroscience Pilots at NIMHD-RCMI institutions
- 3 NIDA R25 applications to support underrepresented UG, predocs, and postdocs
- 13 research and career development applications funded in FY 2021
- 2 concepts presented later today

Research Gaps and Opportunities

- 18 supplements in response to REI NOSIs
- Supported 14 projects that characterize impact of racism on substance use outcomes, ameliorate <u>disparities</u> in SUD care, involve <u>culturally</u> tailored interventions, and/or are led by URM scientists
- 5 REI research concepts will be presented later today
 - A 6th REI concept was presented at the last Council on HIVrelated health disparities in minority populations

INITTIATTIVE

NIDA communications efforts increase in 2021

- Doubled media outreach with 26 press releases
- 550+ media interactions, 300 interviews with NIDA experts

Rates comparable to much larger ICs (NCI, NINDS)

- Four op-eds on criminalization, stigma, harm reduction and ODs generated additional stories, social media conversation
- Most-covered themes: rising OD deaths, COVID and substance use, impact of COVID on adolescents and children
- Increased sharing research (particularly basic/preclinical) on social media

HealthAffairs

Addiction Should Be Treated, Not Penalized

Nora D. Volkow

APRIL 27, 2021

10.1377/forefrom



The New York Times Overdose Deaths Reached Record High as the Pandemic Spread

More than 100,000 Americans died from drug overdoses in the yearlong period ending in April, government researchers said.

THANK YOU!