

Adolescent Brain Cognitive Development[®]

Teen Brains. Today's Science. Brighter Future.

ABCD Update for CRAN Council

May 8, 2024

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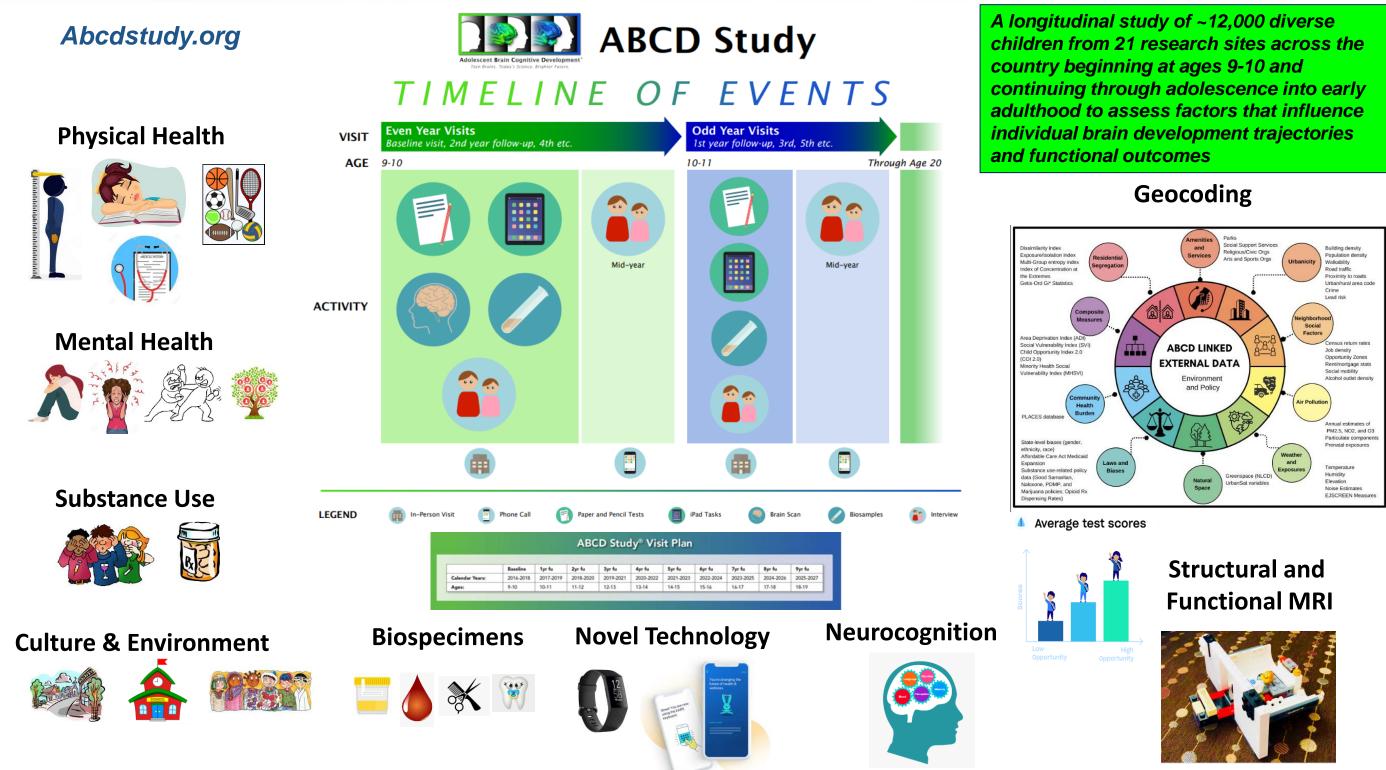
Adolescent Brain Cognitive Development[®]

Teen Brains. Today's Science. Brighter Future.

Agenda

- ABCD Overview, Cohort Diversity, & Retention
- ABCD JEDI Initiative
- Leveraging ABCD
- Resource Sharing
- ABCD Study Outcomes and Dissemination





Diversity in ABCD

Diversity Category	Represented in Biomedical Research	Underrepresented in Biomedical Research (UBR)	
Race and Ethnicity	Youth identified by caregiver as White alone and non-Hispanic/Latino/Latina	Youth identified by caregiver as other than White and non-Hispanic/Latino/Latina, including multiracial	
Access to Care	Families who can afford medical care as needed	Families who could not afford to but have a needed medical visit in the past 12 months	
Annual Household Income	Families with household incomes above 200% of the Federal Poverty Level	Families with household incomes equal to or below 200% of the Federal Poverty Level	
Educational Attainment	Highest parental education is at least a high school degree or equivalent	Highest parental education is less than a high school degree or equivalent	
Gender Identity	Youth who identify as cisgender	Youth who identify as gender variant, non-binary, transgender, or something else	
Geography	Families who reside in urban metropolitan areas	Families who reside in rural and non-metropolitan areas	
Sex Assigned at Birth	Male or female youth	Youth who are neither male nor female (i.e. intersex)	<
Sexual Orientation	Youth who identify as straight	Youth who identify as asexual, bisexual, gay or lesbian, unsure, or something else	

Denominator = 11,868 youth in baseline sample, except where otherwise noted. Includes those with missing data (e.g., don't know or decline to answer). *

** Denominator = 11,606 youth in 4-year sample. Includes those with missing data (e.g., don't know, decline to answer, missed visit).

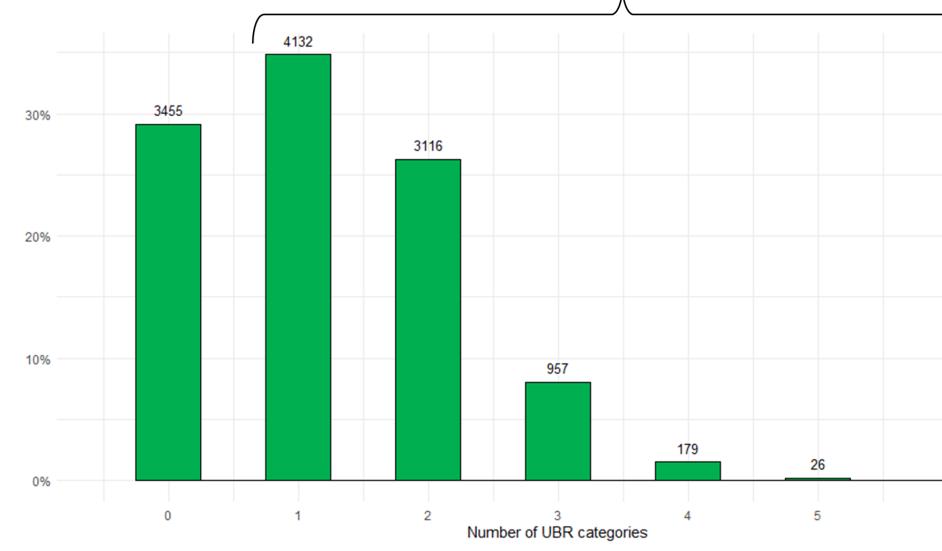
Adapted from Mapes et al. (2020). Note: All of Us uses two additional categories not used here: age, which is not relevant to a developmental cohort, and disability, which is not directly assessed in ABCD.



% UBR*	Assessed at
48%	Baseline
5%	Baseline
28%	Baseline
3%	Baseline
5%**	4-year follow-up
8%	Baseline
0.001%	Baseline
23%**	4-year follow-up
,	

Underrepresented in Biomedical Research (UBR) Populations in ABCD

71% of ABCD sample is UBR in at least one category

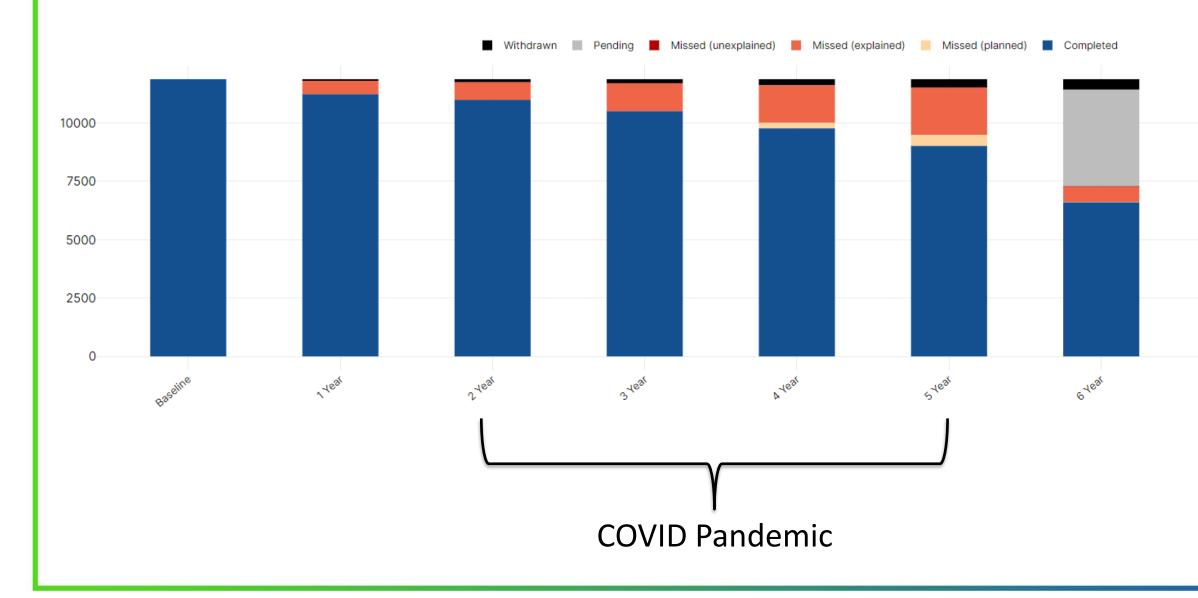




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ABCD Visit Completion

96% Retained



87631 1 Year

Extended Absences

Current definition: No complete annual visit since 2Y, 1Y, or Baseline

ABCD Overall

March 2023 N=753 (6% of baseline sample)

<u>April 2024</u> Still absent: 551 (73% of 753) Came back: 129 (17%) Withdrew: 73 (10%)

			eve	ents							
BL	Y1	Y2	Y3	Y4	Y5	Y6	Y7	count ↓	freq	visits	visit_last
•	٠	٠	٠	•	•	•	•	4020	33.84%	7	Y6
•	•	•	•	•	•	•	•	2269	19.10%	6	Y5 -
•	•	•	•	•	•	•	•	1490	12.54%	8	Y7
•	•	•	•	•	•	•	•	513	4.32%	6	Y4
٠	٠	٠	٠	٠	٠	٠	٠	391	3.29%	7	Y6
•	•	•	•	•	•	•	•	275	2.32%	6	Y3
٠	٠	٠	٠	٠	٠	٠	٠	204	1.72%	6	Y5
٠	٠	٠	٠	٠	٠	٠	٠	159	1.34%	7	Y6
٠	٠	٠	٠	٠	٠	•	•	144	1.21%	6	Y2
•	٠	٠	٠	٠	٠	٠	٠	140	1.18%	7	Y5
٠	٠	٠	٠	٠	٠	٠	٠	125	1.05%	6	Y1
٠	٠	٠	٠	٠	٠	٠	٠	123	1.04%	6	Y5
٠	٠	٠	٠	٠	٠	٠	٠	112	0.94%	6	BL
•	٠	٠	٠	٠	٠	•	•	102	0.86%	7	Y4
•	•	•	•	•	•	•	•	85	0.72%	7	Y3
•	•	•	•	٠	٠	•	•	81	0.68%	7	Y6

7,779

Retention Strategies Hard to Reach Participants Infographic

Hard to reach participants? Check out these tips & tricks

from your fellow RAs!

Be Flexible

Be available to answer calls after hours. Offer appointments at later times and on weekends. Offer to split up visit into 2 days.

Update Secondary/Alternate Contacts

During visits make sure to collect extensive alternative contacts. As the youths approach 18, it is extremely important to ask them for alternative contacts (in addition to the parents alternative contacts), since they will be the person scheduling.

When to Use Secondary/Alternate

Contacts

After 3-5 varied contacts (over 1-2 months) to primary contact (email, call, text) with

no response, move onto secondary and alternate. contacts. If you have permission to contact youth

participant, contact them before alternate contacts.





Utilize Co-Investigators

Ask your Co-Investigators or Site Clinician to call the family you're having trouble reaching. Sometimes speaking with someone higher up can help

re-engage participants and also reminds them of the importance of participating.



Important things to keep in

- mind: Ability to get ahold of them in the past
- Time left in the window · How many times and how you have contacted the direct contacts
- How many past missed visits
- · Varies from participant to participant!

Bonus Payments

Have 1-2 people dedicated

to scheduling and retention!

This will help with

organization of visits and

consistency in participant

communication.

Provide bonus payments to participants for not rescheduling, for scheduling within 30 days of initial reach out, etc.



Child Care

When scheduling offer participants reimbursement for mileage, taxi services, and let them know they can bring their

them!

Respectful Interactions with Participants

When communicating with participants it is extremely important to ALWAYS be respectful! Multicultural awareness should ALWAYS be practiced when

communicating with participants.



House Visits

After using Lexis Nexis to verify participants addresses, pair up with 1-2 RA's and go visit the hard to reach participants at their homes. Bring swag bags (ABCD Shirts) and flyers to help reengage them!

"Please only use this method if your RAs are comfortable doing. house visits*

Pay Attention to Feedback

After each visit, go through participant feedback and satisfaction. If feedback was poor, have your PI or Site Coordinator reach out to the family ASAP and resolve the issue! The quicker the follow up, the

better.

WE WANT YOUR FEEDBACK

> Invite your participants to come to events put on by your lab! This could include public talks about ABCD, public events like pizza parties, sports games, picnics, etc!



Maintain Detailed Documentation of **ALL Interactions with Participants**

Each time you reach out to a participant, whether it is for scheduling purposes or not, it should always be recorded in PII Activity logs! This is helpful for the next time you reach out, as you will be able to see any notes from the initial contact attempt. In addition to activity logs, and feedback forms, sites can create their own "pertinent visit

information" where they can add important details that arose during yearly visit. This could be things as simple as "plays soccer and has cats" or could be problems that came up/things

that made the youth uncomfortable. More information is always better than none!



younger children along with



Mailed Cards

Reach out to participants. throughout the year with Holiday Cards, Birthday Cards, and **Brain Pictures!** These are fun ways to stay connected during the Vear.



Community Outreach





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Improving JEDI in ABCD

Reset

- Expanding efforts beyond racial discrimination
- Improving transparency and accountability •
 - 2024: Conducted climate survey with external consultant

Restructure

- **Eliminated Task Force**
- **Broadened Advisory Council membership** •
 - 2024: First year of open application period for new members

Re-engage

- **Quarterly JEDI All Hands**
 - 2024: Federal race/ethnicity categories, medical mistrust, autism awareness month
- Short trainings during Col/RA meetings •
- More integration and collaboration with non-JEDI WGs •
 - 2024: Recruitment & Retention WG, Crisis & Communication Team, Community Liaison Board **Advisory Group**

Task Force

Equitable & Inclusive Methods

ABCD



Advisory Council

Diversity & Inclusion in

Responsible Use of ABCD Study Data

Climate Survey

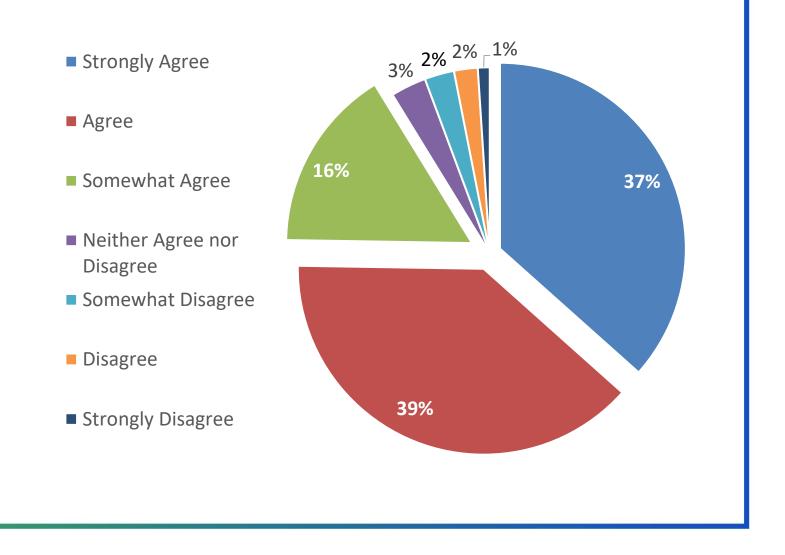
Collaborative Process

JEDI Advisory Council and ABCD's • Coordinating Center worked with consultant to design survey

Survey Design

- Addressed JEDI climate at site and consortium level, demographics, and recommendations
 - Response rate 29.2% —

92% agreed that the ABCD Study has a strong commitment to justice, equity, diversity, and inclusion.





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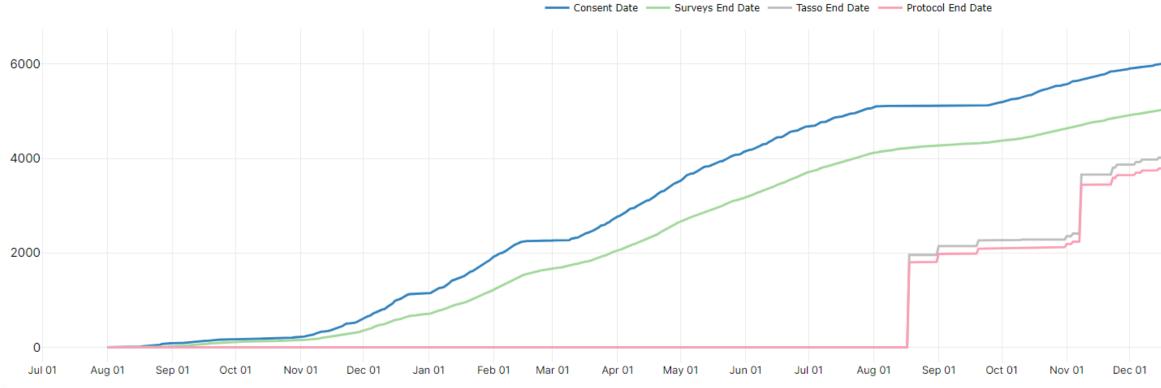


ABCD-RECOVER

Researching COVID to Enhance Recovery (RECOVER)

- Home antibody test kits
- Long COVID symptom survey
- Potential Tier 2 participation

ABCD participants constitute 45% of RECOVER Pediatric Cohort (N=14,195)



6,419

Jan 01 Feb 01 Mar 01 Apr 01 Ma



HIV/STI Satellite Meeting

Saturday, November 18th

General Session Starts at 9:00am in Lyra/Lynx Conference Room All times below are in Eastern Time 👩 To register via Zoom click here Adolescent Brain Cognitive Development Tana Brains, Taday's Science, Brickiez Future.

*times in schedule subject to change

BREAKFAST AVAILABLE IN LYRA/LYNX FROM 8:30AM-9:00 AM 9:00-9:15 am INTRODUCTION AND OVERVIEW - LINKING ABCD CONSTRUCTS TO HIV RESEARCH Raul Gonzalez, Ph.D. SUBSTANCE USE IN THE ABCD COHORT 9:15-9:30 am Natasha Wade, Ph.D. 9:30-9:45 am SEXUAL MINORITY YOUTH AND SEXUAL ACTIVITY IN THE ABCD COHORT Alexandra Potter, Ph.D. TRAUMA, ACES, DISCRIMINATION, AND JUSTICE SYSTEM INVOLVEMENT IN THE 9:45-10:00 am ABCD COHORT Erin Thompson, Ph.D. CONSIDERATIONS FOR SEXUAL AND REPRODUCTIVE HEALTH RESEARCH WITH 10:00-10:45 am SEXUAL AND GENDER MINORITY ADOLESCENTS Kathryn Macapagal, Ph.D. COMMUNITY PANEL SESSION ON HIV TRAJECTORIES IN ADOLESCENTS AND 10:45-11:45 am YOUNG ADULTS Traci M. Murray, PhD, MPH, RN, NHDP-BC, CPH LUNCH IN LYRA/LYNX FROM 11:45-12:45 PM THE WORK SHOP: LEVERAGING COMMUNITY FEEDBACK TO INFORM 12:45-1:45 pm STRUCTURAL HIV INTERVENTION Darnell Motley, Ph.D. 1:45-2:45 pm DEVELOPMENT AND SEXUALITY: CONSIDERATIONS FOR LEVERAGING ABCD DATA TO INFORM HIV/STI PREVENTION AND RESEARCH

FIFTEEN MINUTE BREAK

- TRANSLATIONAL RESEARCH ON HIV AND SUBSTANCE USE AMONG YOUNG MEN 3:00-4:00 pm WHO HAVE SEX WITH MEN: FINDINGS FROM THE RADAR COHORT STUDY Brian Mustanski, Ph.D.
- **OPEN DISCUSSION** 4:00-4:30 pm Moderated by: Raul Gonzalez, Ph.D.

Angela Bryan, Ph.D.

MEETING ADJOURNS AT 4:30PM

What we already have:

HIV Meeting

- Very robust assessment of **mental health**, temperament, impulsivity
- Detailed assessment of gender and sexual orientation, attraction, and identity
- Detailed assessment of demographics, cultural and racial identity
- Assessment of discrimination specific to various classes
- LED data on relevant state policies and structural factors
- Longitudinal data on **parental monitoring**

What we have that might be expanded upon:

- Sources of **social support**, community involvement, affinity groups, etc.
- Parental knowledge specific to youth's sexual/gender minority status and communication around issues of risk, drug use, STIs, and pregnancy
- Specific questions on use of drugs and alcohol during sexual encounters
- More detailed guestions around employment and supportiveness (structural and social) of the work environment
- Expanding information on sexual activity and context
- Expanding on questions about medical mistrust and access to care

What we do not have at all:

- **Biomarkers** of HIV/STI risk, including STI testing
- Youth knowledge and source for sexual education, PrEP availability, STI/HIV testing
- Youth perceptions of STI/HIV diagnosis
- Information on HIV/STI Testing Any information about PrEP (do they know what it is, has anyone talked to you, would you know how to get it, what are you using)?





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Where we are now: ABCD 5.1 Data Release through NDA

ABCD Study Data Availability

Data Release 5.0/5.1

Full cohort:

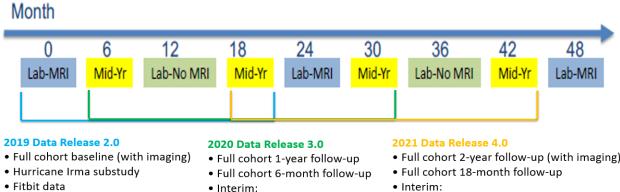
- 3-year follow-up
- 24-month follow-up

Interim:

4-year follow-up

ABCD Annual Data Releases

Curated data are released annually via the NIMH Data Archive (https://nda.nih.gov/abcd)



• Interim:

- 6-month
- 18-month
- 1-year

- 18-month • 30-month 2-year (imaging)
- 42-month
 - 3-year

• 30-month

Data resources

Release notes https://wiki.abcdstudy.o rg/

Data dictionary explorer https://datadict.abcdstudy.org/

Discussion forum https://tinyurl.com/25n vdwcc



ABCD Wiki



ABCD Wiki Relea

Release Notes

Non-Imaging Domains ABCD (General) Culture & Environment Gender Identity and Sexual Health Genetics Linked External Data Mental Health Neurocognition Novel Technologies Physical Health Substance Use Imaging Imaging Overview Administrative Tables Structural MRI

Non-Imaging Domains ABCD (General) Culture & Environment Gender Identity and Sexual Health Genetics Linked External Data Mental Health Neurocognition Novel Technologies Physical Health Substance Use Imaging Substudies

Release Notes

Neurocognition

DOI: 10.15154/z563-zd24 (Release 5.1)

PUBLISHED January 19, 2024

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List of Instruments

Name of Instrument	Subdomain
Youth Instruments	
NIH Toolbox (Cognition)	Task
Cash Choice Task	Task
Little Man Task	Task
<u>The Pearson Rey Auditory Verbal</u> <u>Learning Test (RAVLT)</u>	Task
<u>Wechsler Intelligence Scale for Children</u> (<u>5th Ed.) - Matrix Reasoning [Youth]</u>	Task

Table Name

nc_y_nihtb

nc_y_cct

nc_y_lmt

nc_y_ravlt

<u>nc y wisc</u>

https://wiki.abcdstudy.org

ABCD Wiki

Release Notes Non-Imaging Domains ABCD (General) Culture & Environment Gender Identity and Sexual Health Genetics Linked External Data Mental Health Neurocognition Novel Technologies Physical Health Substance Use

Imaging

Substudies

Neurocognition

DOI: 10.15154/z563-zd24 (Release 5.1)

PUBLISHED January 19, 2024

List of Instruments

Name of Instrument	Subdomain	Table Name
Youth Instruments		
NIH Toolbox (Cognition)	Task	<pre>nc_y_nihtb</pre>
Cash Choice Task	Task	<u>nc_y_cct</u>
Little Man Task	Task	<u>nc_y_lmt</u>
<u>The Pearson Rey Auditory Verbal</u> Learning Test (RAVLT)	Task	<u>nc_y_ravlt</u>
<u>Wechsler Intelligence Scale for Children</u> (5th Ed.) - Matrix Reasoning [Youth]	Task	<u>nc_y_wisc</u>

NIH Toolbox (Cognition)

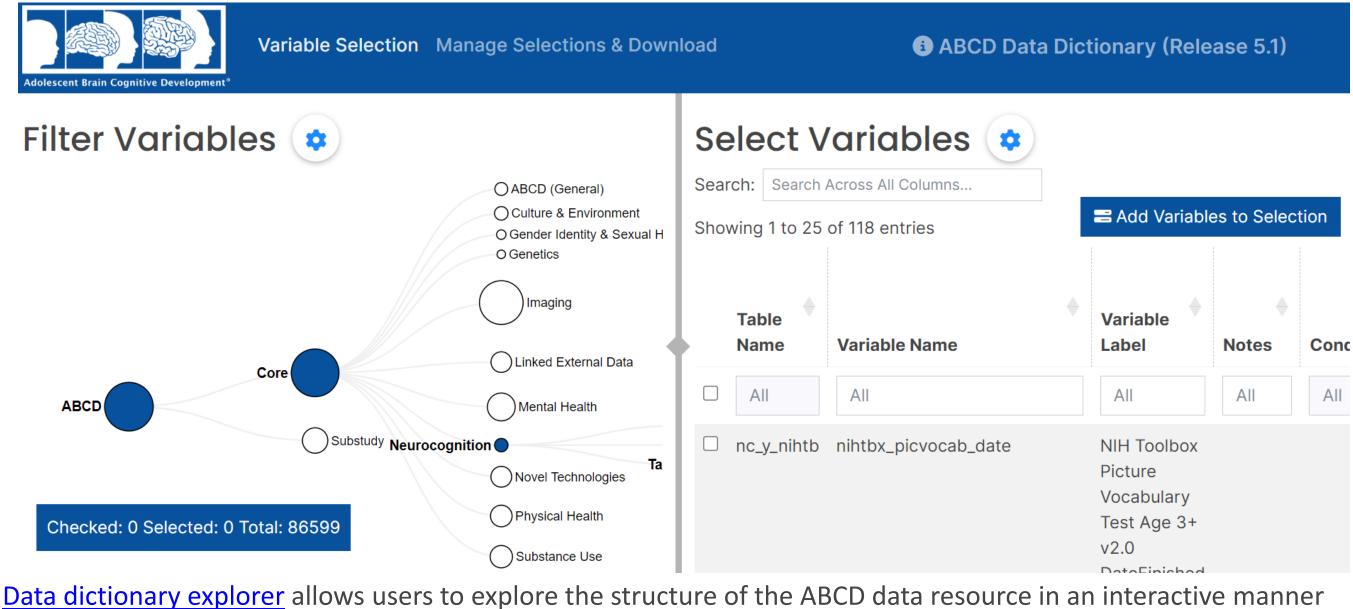
Release 5.0 Data Table: nc_y_nihtb

Measure Description: The NIH Cognition Toolbox comprises seven tasks administered via iPad (Scoring & Interpretation Guide; Composite Score Technical Manual). For each task, raw scores, and uncorrected and age corrected scores are available. The following tasks are me included in the battery:

- *Picture Vocabulary*: Language vocabulary knowledge. A component of the *Crystallized* Composite Score. Technical Manual
- Flanker Inhibitory Control & Attention: Attention, cognitive control, executive function, inhibition of automatic response. A component of the Fluid Composite Score. Note, remote assessments used a replicated Flanker task administered using the Inquisit platform, because the NIH Toolbox version could not be administered remotely. Technical Manual

https://wiki.abcdstudy.org

ABCD Data Dictionary



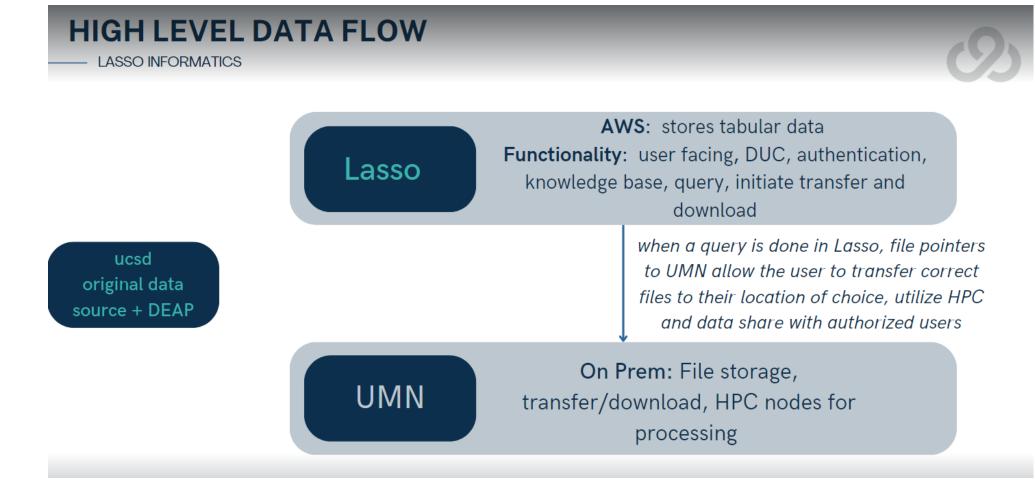


*ABCD data will be transferred from the NIMH Data Archive



Summer 2024 NIH Brain Development Cohorts Data Sharing Platform

- Optimized for large datasets, including neuroimaging and genomics data
- Provides scalable data ingestion, integrated data analytics, customized user experience \bullet
- Provides homogenous solution for harmonizing with planned data from the HBCD Study





Responsible data and biospecimen use training



NIH Brain Development Cohorts (NBDC) **Responsible Data and Biospecimen Use Training**

This training provides information about ethical and responsible data and biospecimen use of large datasets, such as the Adolescent Brain Cognitive Development[™] (ABCD) Study and the HEALthy Brain and Child Development (HBCD) Study.

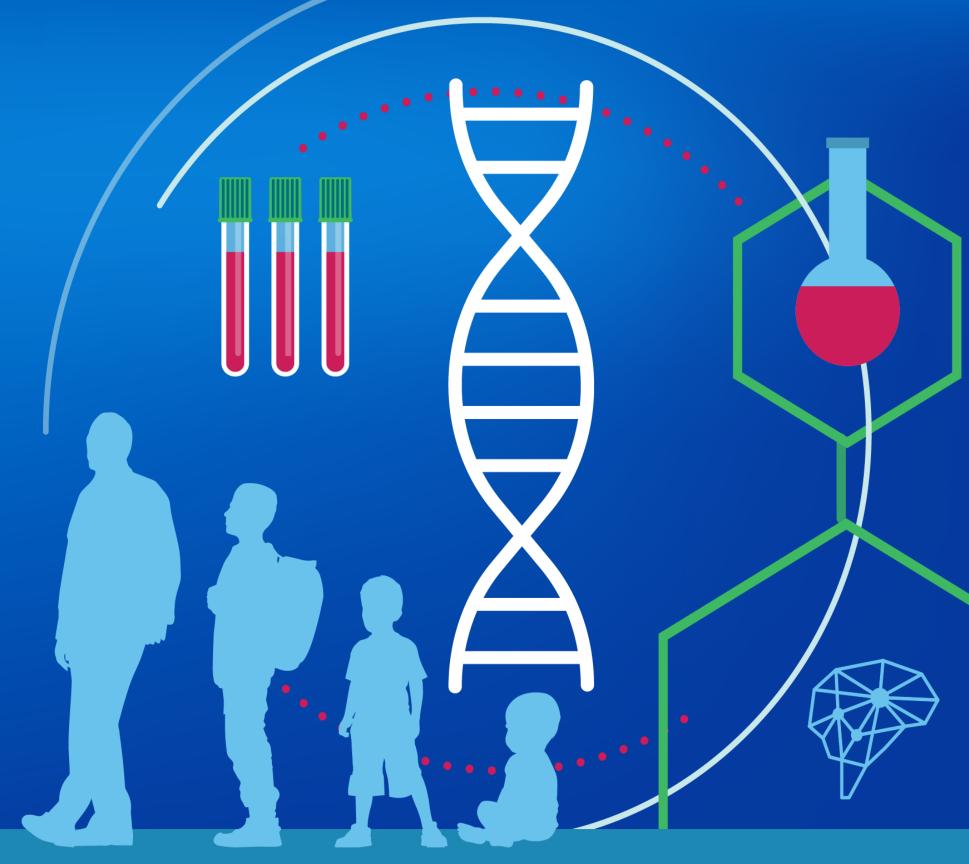
> At the end of the training, we will test your knowledge of its content. Once you pass the assessment, you may sign your data use certification and access the NBDC data



- Describe the ethical principles for doing secondary data analysis research involving human participants
- Describe the historical and contemporary contexts for understanding race and racism in science and medicine
- Understand how to conduct science ethically and responsibly
- Understand the data use terms and conditions for • accessing the data and for using biospecimens
- Learn how to mitigate risk of participant identification



NIH Brain Development Cohorts (NBDC) Biospecimen Access Program



NBDC Biospecimen Access Program

Purpose

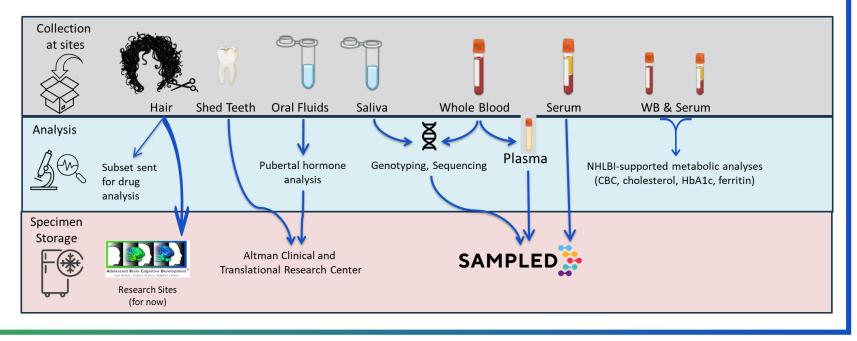
Allow internal and external investigators to apply to use residual biospecimens from the ABCD Study

Scope

- Studies consistent with ABCD Study objectives or which expand the knowledge of child or adolescent • health more broadly
- Successful applicants are required to deposit the results of their analyses into the ABCD Data • Repository

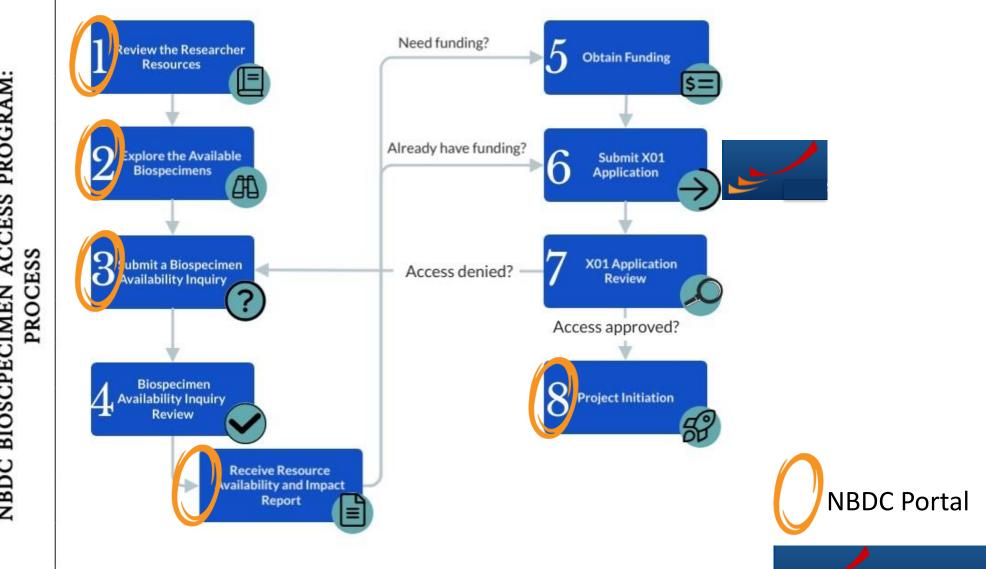
Mechanism

- Notice of Funding Opportunity
 – Resource Access Award (X01) PAR-23-229
- No funds associated with the award. Applicants need to get outside funding for analyses and sample shipment prior to submitting their X01 application.





Process for Applying



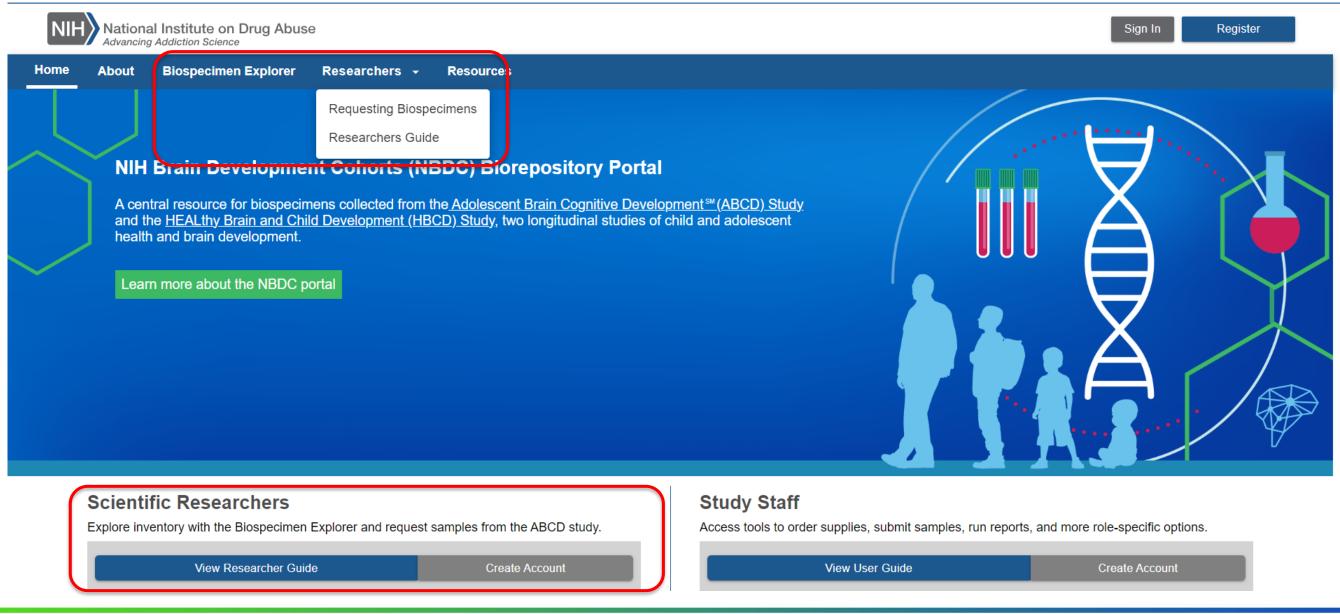
NBDC BIOSCPECIMEN ACCESS PROGRAM:

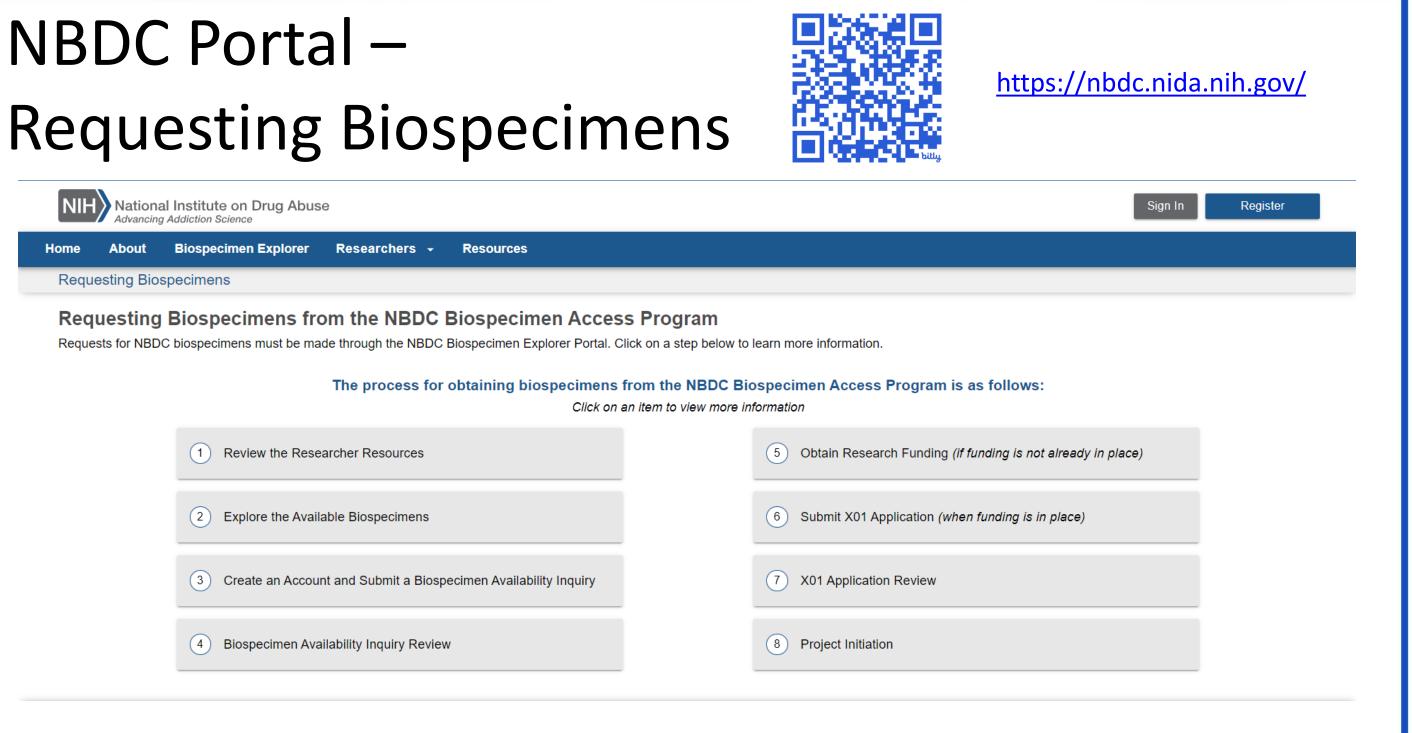


NBDC Portal tour



https://nbdc.nida.nih.gov/





NBDC Portal – **Researcher Guide**



https://nbdc.nida.nih.gov/

Collection Details	Deprivation Period: avoid high sugar, caffeine, and acidic meals or major meals 60 minutes before collection; no food, snacks, beverages, gum, or candy 30 minutes before collection. At 10 minutes prior to collection, ask subject to rinse mouth well with water and spit water in a cup or sink to remove any remaining particulates.
	Participant Instructions: allow saliva to collect in the mouth, then gently and carefully push saliva through the large straw so it can be collected in the tube below - passive drool (don't spit).
Collection Container	2mL cryovial tubes - no diluent or additives/preservatives. Blue for male, pink/purple for female. Transgender/transitioning participants collected in female tube so full hormone profile is assessed.
Time From Processing To Collection	5 Minutes Or Less
Processing Procedures	Freeze Immediately In Nalgene Laptop Cooler
Fime From Processing To Storage	As soon as possible, up to 1 hour
Storage Temperature and Storage Procedures	-20°C or -80°C
Fime From Storage To Shipment	Up to 3 months
Shipment Packaging and Parameters	Dry Ice; FedEx Priority Overnight

> QC Procedures And Use Considerations

ON THIS PAGE

Biospecimens Collected in the ABCD Study, by Visit Timepoint

Oral Fluids

Whole Blood

Externally Produced Serum

DNA Whole Blood

DNA Saliva

Shed Teeth

Cost Estimates

↑ ВАСК ТО ТОР

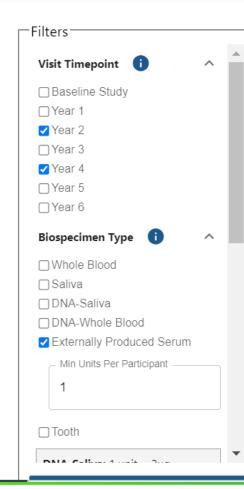
NBDC Portal – Biospecimen Explorer



https://nbdc.nida.nih.gov/



Home About Biospecimen Explorer Researchers - Resources Biospecimen Explorer - ABCD Study



The table below displays the number of participants with given biospecimens types per visit timepoint. Select and apply filters to customize the display. (Refer to the "Biospecimens Collected in the ABCD Study, by Visit Timepoint" table in <u>User Guides</u> as needed.)

					Start Inquiry
Biospecimen Type ≡	Visit Timepoint(s) \equiv	Participant Sex \equiv	Participant Race \equiv	Participant Ethnicity \equiv	# of Participants \equiv
Ext. Produced Serum	Year 2 & Year 4	Female	Black	Not Hispanic or Latino	47
Ext. Produced Serum	Year 2 & Year 4	Female	More than one race	Not Hispanic or Latino	28
Ext. Produced Serum	Year 2 & Year 4	Female	White	Not Hispanic or Latino	243
Ext. Produced Serum	Year 2 & Year 4	Male	Black	Not Hispanic or Latino	64
Ext. Produced Serum	Year 2 & Year 4	Male	More than one race	Not Hispanic or Latino	33
Ext. Produced Serum	Year 2 & Year 4	Male	White	Not Hispanic or Latino	307

Sign In Register

See website for additional information

Grants and Funding

NIDA Funding Opportunities

FY22 Priority Research Areas

Small Business Innovation Research (SBIR) and Technology Transfer (STTR) Programs

Special Considerations for NIDA Funding Opportunities and Awards

NIDA Funding Strategy

Trans-NIH Funding Opportunities

NIDA Office of Acquisitions Contracting

Technology Transfer

NIH Brain Development Cohorts (NBDC) Biospecimen Access Program

The NIH Brain Development Cohorts (NBDC) Biospecimen Access Program provides the research community access to biospecimens collected from the Adolescent Brain Cognitive DevelopmentSM Study (ABCD Study[®]) participants through an X01 resource access mechanism.

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introduction	•
Applying for Access to Biospecimens	0
Project Initiation	•
Acknowledgements	0
Frequently Asked Questions	0

https://nida.nih.gov/funding/nida-funding-opportunities/nih-brain-development-cohorts-biospecimen-access-program



https://bit.ly/NBDC BAP

Deadlines and Timelines

Availability Inqui Due Dates	ry Application Due Dates	Scientific Merit Review	Ear
September 5, 2024	October 4, 2024	January 2025	
January 6, 2025	February 6, 2025	May 2025	
April 5, 2025	May 5, 2025	September 2025	

Questions? Contact us: devstudybiosamples@nida.nih.gov

rliest Start Date

March 2025

July 2025 December 2025



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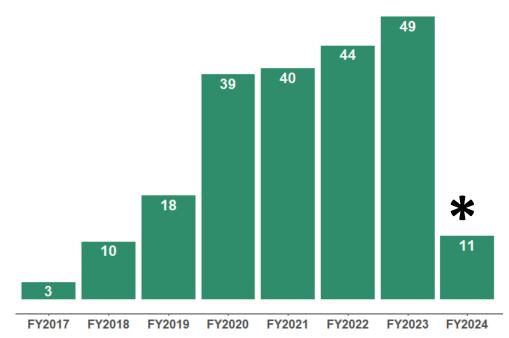
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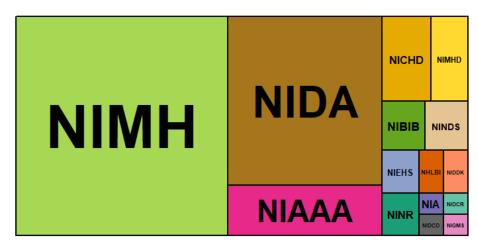


Funded Grants Using ABCD Data/Methods

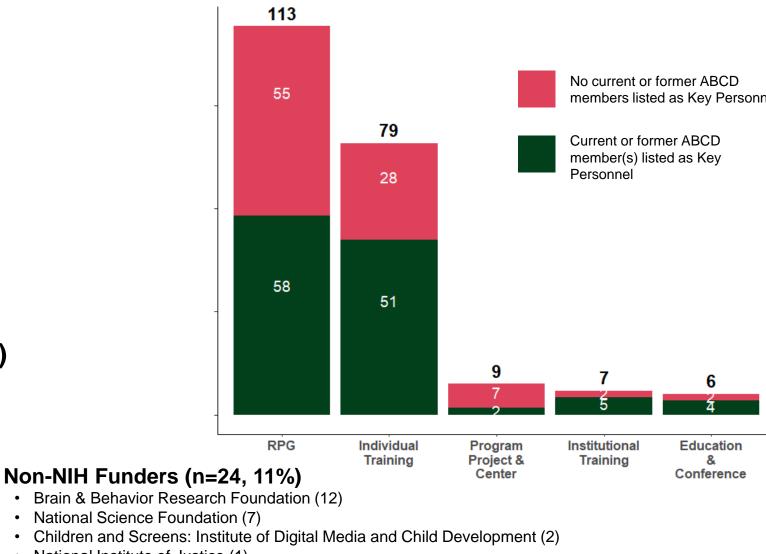
Grants by Fiscal Year (Total N=214)



NIH-funded Grants by IC (n=190, 89%)



Grants by Mechanism and ABCD Membership



- National Institute of Justice (1)
- Institute of Education Sciences (1)
- Netherlands Organisation for Scientific Research (1)





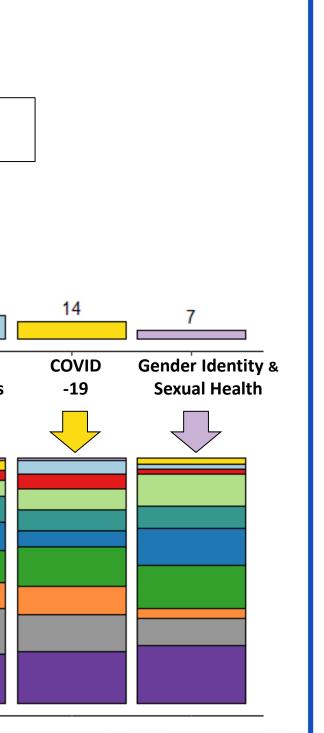
members listed as Key Personnel

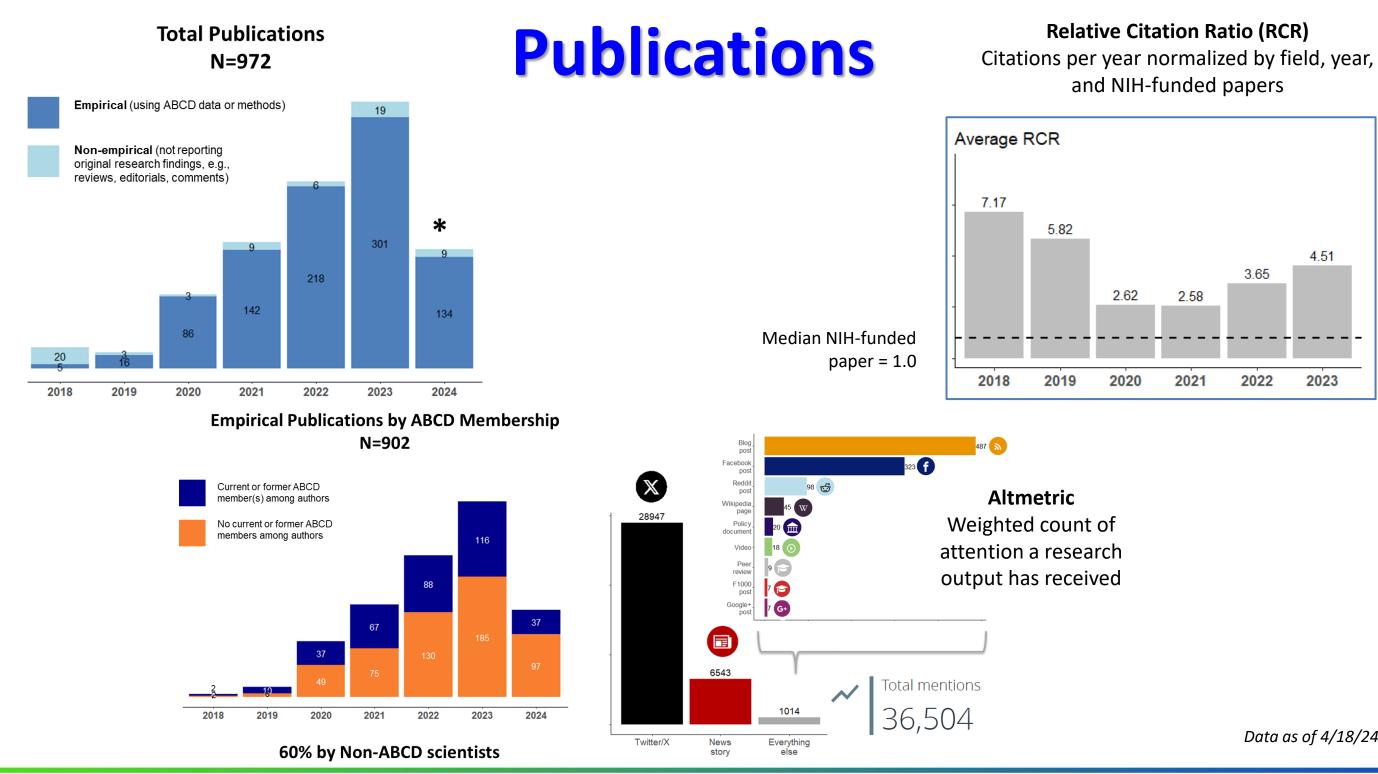
Data as of 4/23/24

Funded Grants by Domain

<u>Note</u>: Categories are not mutually exclusive; 153 most publications include multiple domains. 139 150 100 75 64 62 55 38 50 33 19 0 Substance Linked External Neuro-Mental Culture & Genetics Neuro-Novel **Physical** Health Cognition Environment Technologies Imaging Use Health Data 1.00 0.75 0.50 0.25 0.00

Total N = 184 RPG and Individual Training using data





Data as of 4/18/24

ABCD Insights & Innovations Meeting (AIIM)

March 4-5, 2024

Day 1 • 9:30 a.m. - 10:30 a.m. - Poster and Mentoring Sessions 11:00 a.m. - 5:30 p.m. - General Session Day 2 • 9:30 a.m. - 10:30 a.m. - Poster and Mentoring Sessions 11:00 a.m. - 3:15 p.m. - General Session

In-person: Natcher Auditorium NIH Campus, Bethesda, Maryland



NIDA, NIAAA, NIMH, OBSSR, NICHD

Over 400 attendees (inperson and virtual) with nearly 90% from outside the ABCD **Study Consortium**

Strong focus on early career researchers through group and 1:1 mentoring opportunities

" enjoyed this meeting more than any other meeting I can remember. I thought the whole tone of the meeting was particularly warm and collegial." - Attendee

"I didn't feel like I missed out on too much by attending virtually. The AV capabilities of the venue were the big difference compared to some other conferences I've attended *virtually.*" – Poster presenter

"Thank you so much for putting this wonderful meeting together!! I hope this is the first of many such meetings." - Attendee

Speaker

Received 171 abstracts for consideration including **15** international submissions

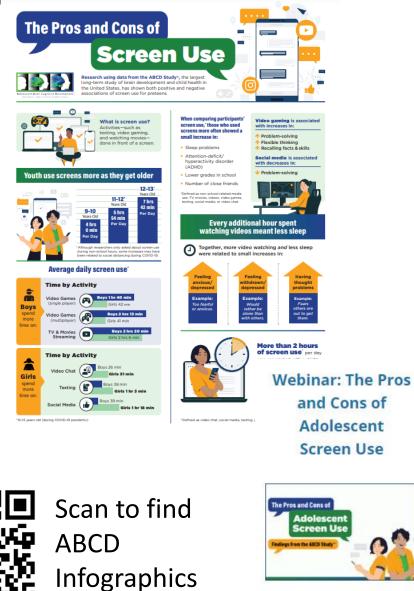
Promoting ABCD Study and NIH resources with interactive lunch sessions

"It was a really wonderful experience, especially as an early career researcher, and it was great to hear from so much diverse expertise." -





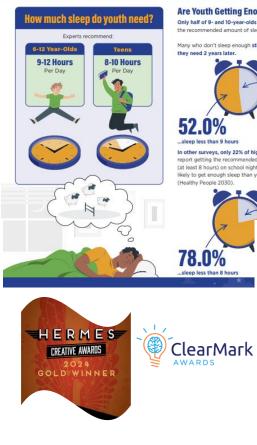
Infographics and Webinars



May 2023 and Webinars 617 registrants

1212 The Importance of **Sleep for Youth**

Getting enough sleep is important for the body to stay active and healthy. Research using data from the ABCD Study , the largest long-term study of brain development and child health in the United States. has looked at how much sleep youth typically get, what influences their sleep, and what might happer when they don't get enough.





Many who don't sleep enough still don't get the sleep they need 2 years late





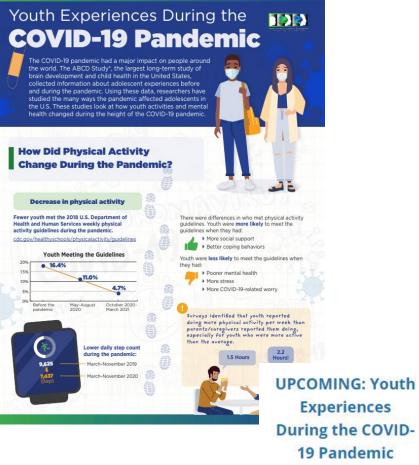
22 በ%

Webinar: The Importance of





Nov 2023 475 registrants







April 2024 550 registrants

Policy



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



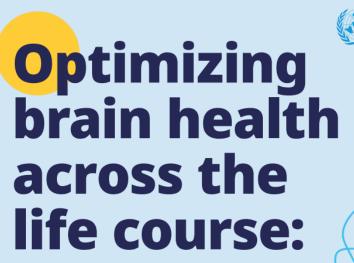
Early Adolescent Substance Use Before and During the COVID-19 Pandemic: A Longitudinal Survey in the ABCD Study Cohort



Addressing Youth Substance Use through School Services and Supports Lessons from the District of Columbia, Massachusetts, and New Mexico

nature Article Open access Published: 06 April 2022

Brain charts for the human lifespan



WHO position paper

nature communications

Article Open access Published: 02 May 2023

mental health in U.S. children

World Health Organization



RESEARCH REPORT



September 2023



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State-level macro-economic factors moderate the association of low income with brain structure and

TAX POLICY CENTER

The Return on Investing in Children

Elaine Maag, Cary Lou, Michelle Casas, Hannah Daly, Gabriella Garriga, and Lillian Hunter

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Thank you to...

- 10 Federal partner agencies and their staff •
- 21 research sites, coordinating center, data analysis informatics and resource center
- Hundreds of investigators and trainees
- Even more research assistants and staff •
- And nearly 12,000 participants and their families





Adolescent Brain Cognitive Development®

Teen Brains. Today's Science. Brighter Future.

