

# ABCD Human Subject Study

Adolescent Brain Cognitive Development – ABCDSTUDY.org

## Release Notes: Adolescent Brain Cognitive Development Study<sup>SM</sup> (ABCD Study<sup>®</sup>) Data Release 4.0

### Mental Health

<http://dx.doi.org/10.15154/1523041>

**October 2021**

#### Change Log

October 2021 – Data Release 4.0

- Initial release

### List of Instruments

Name of Instrument	Short Name
ABCD Youth Gender Identity	abcd_ygi01
ABCD Youth GISH2	abcd_gish2y01
ABCD Parent Gender Identity	abcd_pgi01
ABCD Youth NIH Toolbox Positive Affect Items	abcd_ytbpai01
ABCD Youth 7-Up Mania Items	abcd_y7mi01
ABCD Youth 10 Item Delinquency Scale	abcd_y10ids01
ABCD Youth Life Events	abcd_yle01
ABCD Parent Life Events	abcd_ple01
ABCD Occupation Survey Parent	abcd_occsp01
ABCD Cyber Bully	abcd_cb01
ABCD Peer Experiences Questionnaire	abcd_peq01
Emotion Regulation Questionnaire (Youth for Youth)	emotion_reg_erq_feelings01

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<b>Difficulties in Emotion Regulation Scale (Parent for Youth)</b>	diff_emotion_reg_p01
<b>Perceived Stress Scale (Parent for Parent)</b>	perceived_stress_p01
<b>ABCD Sum Scores Mental Health Parent</b>	abcd_mhp01
<b>ABCD Sum Scores Mental Health Youth</b>	abcd_mhy01

## General Information

The following information refers to the Adolescent Brain Cognitive Development Study<sup>SM</sup> (ABCD) Data Release 4.0 available from <https://nda.nih.gov/abcd>. An overview of the ABCD Study<sup>®</sup> is at <https://abcdstudy.org> and detailed descriptions of the assessment protocols can be viewed at <https://abcdstudy.org/scientists/protocols>.

This document describes the contents of various instruments available for download. To understand the context of this information, see *Release Notes ABCD README FIRST* and *Release Notes ABCD Imaging Instruments*.

To access detailed information about the instruments administered in this domain, the constructs they are intended to measure and relevant citations for each measure, please see: <https://www.sciencedirect.com/science/article/pii/S1878929317300683>

## Important Information About the KSADS in Release 4.0

In May of 2021, the KSADS-COMP originators did a review of diagnostic criteria used in the programming algorithms and found several errors that likely led to overestimates of diagnoses for several disorders. The needed modification are: a) include impairment in the diagnostic criteria for Major Depression and Persistent Depressive Disorder; b) include onset before age 10 in the diagnostic criteria for Disruptive Mood Dysregulation Disorders; c) require impairment in two domains, not just one, for Attention Deficit Hyperactivity Disorder; d) require an illness duration of 6 months or more for Agoraphobia; e) include an illness duration of three months or longer for Anorexia; and f) include the presence of all three criterion A symptoms for Autism (relevant to the 2.0 version). Thus, prior releases of ABCD Study data in these diagnostic domains were impacted by these issues. The KSADS-COMP will be modified with these updated criteria. At the time of the 4.0 release, these corrected diagnostic data were not available and diagnoses in these categories are not available in 4.0.

In the 4.0 release, the following codes are used in the KSADS instruments:

- 777 = “Decline to answer”
- 999 = “Do not know”
- 888 = Question not asked due to primary question response (branching logic)
- 555 = Not administered in the assessment

### Important Information about the Youth 10 Item Delinquency Scale

Statistical analyses of the Youth 10 Item Delinquency Scale revealed evidence of significant race/culture bias in this measure. The ABCD Mental Health Workgroup and the ABCD Justice, Equity, Diversity, and Inclusion Workgroup 1 that oversees equitable and inclusive methods and assessments proposed not to release these data or a summary score in Data Release 4.0. The ABCD Council of Investigators approved this proposal. These data do not appear in the 4.0 release. Furthermore, the decision was made to discontinue administration of the Youth 10 item Delinquency Scale starting at the Year 4 follow-up, and to modify the Conduct Disorder section of the KSADS such that all youth are asked all the potential behavioral indicators of Conduct Disorder, and the Callous and Unemotional trait questions are asked of any youth who endorse one or more Conduct Disorder indicators. These modifications will reduce redundancy across measures in the ABCD dataset and ensure that a broader set of behaviors relevant to delinquency are assessed.

## Instrument Descriptions

### **ABCD Occupation Survey Parent**

A questionnaire asking the caregiver about their own and their partner’s occupation and job category according to the ACS job classifications. This instrument was introduced in the two-year follow-up.

### **ABCD Youth GISH2**

The GISH2 is a youth measure of sexual attraction and behavior. This instrument was introduced in the two-year follow-up.

### **ABCD Cyber Bully**

Assesses whether a youth has experienced or perpetrated cyberbullying, including information about whether it occurred in the past year and the frequency. This instrument was introduced in the two-year follow-up.

### **ABCD Peer Experiences Questionnaire**

Assessment of whether the youth has either experienced overt, relational, or reputational victimization from peers or perpetrated overt, relational, or reputational aggression towards peers. This instrument was introduced in the two-year follow-up.

### **Emotion Regulation Questionnaire (Youth for Youth)**

The youth report Emotion Regulation Questionnaire (ERQ) assesses self-control of emotions. This instrument was introduced in the three-year follow-up. See Barch, D. M., Harms, M. P., Tillman, R., Hawkey, E., & Luby, J. L. (2019). Early childhood depression, emotion regulation, episodic memory, and hippocampal development. *Journal of Abnormal Psychology*, 128(1), 81-95.

### **Difficulties in Emotion Regulation Scale (Parent for Youth)**

The parent report Difficulties in Emotion Regulation Scale (DERS) assesses their child's emotion regulation across multiple domains, including awareness and acceptance of emotions, ability to engage in goal-directed behavior and refrain from impulsive behavior, and access to effective emotion regulation strategies. This instrument was introduced in the three-year follow-up. See Bunford, N., Dawson, A.E., Evans, S.W., Ray, A.R., Langberg, J.M., Owens, J.S., DuPaul, G.J., Allan, D.M. (2020). The Difficulties in Emotion Regulation Scale-Parent Report: A Psychometric Investigation Examining Adolescents With and Without ADHD. *Assessment*, 27(5), 921-940.

### **Perceived Stress Scale (Parent for Parent)**

A 10-item parent report of the parent's perception of stress feelings and thoughts. This instrument was introduced in the three-year follow-up. See Cohen, S., Kamarck, T., & Mermelstein, R. (1983). A global measure of perceived stress. *Journal of Health and Social Behavior*, 24, 385-396.

**Summary Scores** not clearly marked in other instruments can be found in the two instruments listed below. Prefixes used in summary score variables are listed at the end of each instrument name.

### **ABCD Sum Scores Mental Health Youth**

ABCD Prodromal Psychosis Scale (PPS)

ABCD Youth Life Events (PLE)

UPPS-P for Children Short Form (ABCD-version) (UPPS)

ABCD Youth Behavioral Inhibition/Behavioral Approach System Scales Modified from PhenX (BIS)

ABCD Youth 7-Up Mania Items (SUP)

ABCD Youth Gender Identity (GISH)

**ABCD Sum Scores Mental Health Parent**

ABCD Parent General Behavior Inventory-Mania (PLE)  
ABCD Parent Sleep Disturbance Scale for Children (SDS)  
ABCD Parent Life Events (PLE)  
ABCD Parent Short Social Responsiveness Scale (SSRS)  
ABCD Parent Gender Identity (GISH)

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