

ABCD Human Subject Study

Adolescent Brain Cognitive Development – ABCDSTUDY.org

Release Notes: Adolescent Brain Cognitive Development Study® (ABCD) Data Release 3.0

Physical Health

<http://dx.doi.org/10.15154/1519007>

October 2020

Change Log

October 2020 – Data Release 3.0

- Initial release

List of Instruments

Name of Instrument	Short Name
ABCD Pubertal Hormone Saliva	sph01
ABCD Hormone Saliva Salimetric Scores	abcd_hsss01
ABCD Youth Anthropometrics Modified From PhenX	abcd_ant01
ABCD Youth Risk Behavior Survey Exercise Physical Activity	abcd_yrb01
ABCD Youth Pubertal Development Scale and Menstrual Cycle Survey History (PDMS)	abcd_ypdms01
ABCD Parent Pubertal Development Scale and Menstrual Cycle Survey History (PDMS)	abcd_ppdms01
ABCD Parent Medical History Questionnaire (MHX)	abcd_mx01
ABCD Longitudinal Parent Medical History Questionnaire	abcd_lpmh01
ABCD Developmental History Questionnaire	dhx01
ABCD Parent Medications Survey Inventory Modified from PhenX (PMP)	medsy01
ABCD Parent Sleep Disturbance Scale for Children	abcd_sds01
ABCD Parent Sports and Activities Involvement Questionnaire	abcd_saiq01

ABCD Longitudinal Parent Sports and Activities Involvement Questionnaire	abcd_lpsaiq01
ABCD Youth Snellen Vision Screener	abcd_svs01
ABCD Youth Edinburgh Handedness Inventory Short Form	abcd_ehis01
ABCD Child Nutrition Assessment	abcd_cna01
ABCD Parent Ohio State Traumatic Brain Injury Screen-Short Modified	abcd_otbi01
ABCD Youth Genetic Blood (RUCDR)	biocf01
ABCD Youth Blood Analysis	abcd_ybd01
ABCD Youth Blood Pressure	abcd_bp01
ABCD Pain Questionnaire	abcd_pq01
ABCD Youth Munich Chronotype Questionnaire	abcd_mcqc01
ABCD Youth Teeth Collection	bteeth01
ABCD Longitudinal Parent Ohio State Traumatic Brain Injury Screen-Short Modified (OTBI)	abcd_lpohstbi01
ABCD Sum Scores Traumatic Brain Injury	abcd_tbi01
ABCD Longitudinal Summary Scores Traumatic Brain Injury	abcd_lsstbi01
ABCD Sum Scores Parent Sports and Activities Involvement	abcd__spacss01
ABCD Longitudinal Summary Scores Sports Activity	abcd_lsssa01
ABCD Sum Scores Parent Medical History	abcd_medhxss01
ABCD Longitudinal Summary Scores Medical History	abcd_lssmh01
ABCD Sum Scores Developmental History	abcd_devhxss01
ABCD Sum Scores Physical Health Parent	abcd_ssphp01
ABCD Sum Scores Physical Health Youth	abcd_ssphy01

General Information

The following information refers to the Adolescent Brain Cognitive Development StudySM (ABCD) Data Release 3.0 available from <https://nda.nih.gov/abcd>. An overview of the ABCD Study[®] is at <https://abcdstudy.org> and detailed descriptions of elements of the study are listed in <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 the physical health domain, the constructs they are intended to measure and relevant citations for each measure, please see: <https://www.sciencedirect.com/science/article/pii/S1878929317300683> and <https://www.sciencedirect.com/science/article/pii/S1878929317301822>

ABCD Youth Edinburgh Handedness Inventory Short Form (EHIS) - Handedness; laterality quotient; participants complete four self-report items to yield an estimate of handedness (right, mixed, left); details can be found in Veale, J.F. (2014). Edinburgh Handedness Inventory - Short Form: A revised version based on confirmatory factor analysis. *Laterality*, 19(2), 164-177. This instrument was not collected in the one- and two-year follow-up.

ABCD Youth Snellen Vision Screener (SVS) - Vision screening; the score is the last line correctly read on the Snellen chart without errors, with both eyes together, and using corrective lenses if needed; from Snellen, H. (1862). *Letterproeven tot Bepaling der Gezichtsscherpte*, Utrecht, Weyers (Dutch edition). Also published in many languages as *Optotypi ad Visum Determinandum* (Snellen, 1862). **ABCD Pubertal Hormone Saliva** - Information collected by RAs at the time of collecting oral fluid to indicate current estradiol, testosterone, and DHEA levels.

ABCD Hormone Saliva Salimetric Scores - Pubertal hormone levels (Estradiol, testosterone, and DHEA). Note that there are two testing “repetitions” for each test. The first repetition evaluates the adequacy of the sample for testing and provides the first testing for the presence of hormone. The second repetition provides quantification metrics of the hormone. Users will need to manually segregate analyses from different events.

ABCD Child Nutrition Assessment

The nutrition questionnaire is given to parents at one-year follow-up as a means of assessing the dietary patterns of participants during a typical week. It includes 13 questions on food categories eaten and 2 questions on vitamin and folic acid supplement use by the biological mother (Morris, et. Al., 2015).

ABCD Youth Genetic Blood (RUCDR): Information collected by RAs at the time of venipuncture blood collection for genetics studies (e.g., time of day of collection)

ABCD Youth Blood Analysis: This instrument summarizes whole blood analysis from two tubes for hemoglobin, A1C, CBC, total cholesterol, HDL cholesterol, and Ferritin.

ABCD Youth Blood Pressure: This instrument provides 3 consecutive blood pressure and pulse measurements, with a 1-minute interval between each reading, and the mean of the 3 blood pressure readings.

ABCD Pain Questionnaire: The CAPQ is based on the Seattle's Children's "Child and Adolescent Pain Questionnaire" and conforms to the NRS-11 standard for examining pain intensity over the past month, which is the recommended time-frame.

ABCD Youth Munich Chronotype Questionnaire: The MCTQ-C assesses chronotypes, which are diurnal preferences that manifest in personal sleep-wake rhythms, including sleep and wake schedules on school and free days.

ABCD Youth Teeth Collection: The total number of teeth collected from caregivers for youth participants.

ABCD Parent Sports and Activities Involvement Questionnaire: Involvement in sports, music, hobbies, art, theater, reading, and TBI risk. Parents were asked for how many years their child had participated in a given activity. The maximum allowed for this question was 10 years.

ABCD Longitudinal Parent Sports and Activities Involvement Questionnaire: Involvement in sports, music, hobbies, art, theater, reading, and TBI risk (update). Parents were asked for how many years their child had participated in a given activity. The maximum allowed for this question was 10 years.

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

ABCD Sum Scores Physical Health Youth

ABCD Youth Pubertal Development Scale and Menstrual Cycle Survey History (PDS)

ABCD Sum Scores Physical Health Parent

ABCD Parent Pubertal Development Scale and Menstrual Cycle Survey History (PDS)

ABCD Child Nutrition Assessment (CNA)

References

Morris, M.C., Tangney, C.C., Wang, Y. et al. (2015) MIND diet associated with reduced incidence of Alzheimer's disease. *Alzheimer's & Dementia* (11) 1007-1014

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