CHEAR Project # 2017-1598

This file contains general information about the CHEAR project data files you are downloading.

Contents:

1. CITING CHEAR DATA

A. The publication policy, which you agreed to upon registering to the CHEAR data repository, provides guidelines about citations. https://hhearprogram.org/sites/default/files/2020-01/HHEAR-ExternalPublicationsPolicy-2019-10-21-508_0.pdf

CHEAR resources are made possible by NIH funding and must be properly acknowledged in manuscripts (per the journal's requirement), abstracts, posters, and presentations, one or more statements should specify financial acknowledgement as follows:

"Research reported in this publication was supported by the National Institute of Environmental Health Sciences of the National Institutes of Health under Award Number [grant(s) (see Table below)]. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health."

Grant numbers:

Institution	Principal Investigator	Title	Grant Number
Icahn School of Medicine at Mount Sinai	Susan L. Teitelbaum	CHEAR Center for Data Science	U2CES026555

Icahn School of Medicine at Mount Sinai	Wright, Robert O.	Mount Sinai CHEAR Network Laboratory Hub	U2CES026561

B. Publicly available CHEAR data are those data that have been generated by the CHEAR lab(s) combined with the data submitted by CHEAR project investigators. External research investigators who are using *any* publicly available CHEAR data should cite:

   i. The original paper(s) associated with each CHEAR project included in your manuscript. If available, are located https://hheardatacenter.mssm.edu/Search/Study.
   ii. The DOIs (Digital Object Identifier) associated with the data files used in your manuscript. DOIs are located *https://hheardatacenter.mssm.edu/PublicFile/Manage?projectId=37* as well as section 3 below.
   iii. We also suggest including the following statement in your manuscript:

Data for this project was obtained from the publicly available data in the Human Health Exposure Resource (HHEAR) Data Repository, which has been approved under Icahn School of Medicine at Mount Sinai IRB Protocol # 16-00947.

All of this will ensure that the original generators of the data sets will get credit and allow readers to locate and evaluate the provenance of the data.

Questions about this policy should be directed to: HHEAR_CC@westat.com.

2. CHEAR GLOSSARY

Participant ID Format

The format of the CHEAR Participant ID is as follows:

Participant ID (PID) = CHEAR assigned participant ID with the structure XXXXXXX. It is a 7-digit numeric code that will uniquely identify a CHEAR participant

[Child Participant ID (CHILD_PID) = When biological specimens are provided by the mother, PID is used to designate who the sample is from (mother or child), and a child PID is also included to designate which child the data is related to if mothers are providing data for more than one child.]

Sample ID Format

The format of the CHEAR Sample ID is as follows:

Sample ID (SID) = CHEAR assigned sample ID with the structure **C-XXXXX-SP** (example: C-3XA5P-U)

- C = CHEAR (fixed character prefix)
- Core ID is a 5-digit alpha-numeric code **XXXXX** that will uniquely identify a CHEAR biological sample
- SP=specimen type (relevant specimen code below):

  S = Serum
  U = Urine

Targeted Analyte Codes

Chemical Group Code	*Full Chemical Group Name*	*Code*	*Full Chemical Name*	*CAS#*
UTE	Trace Elements in urine	Al	Aluminum	7429-90-5
UTE	Trace Elements in urine	As	Arsenic	7440-38-2
UTE	Trace Elements in urine	Ba	Barium	7440-39-3
UTE	Trace Elements in urine	Cd	Cadmium	7440-43-9
UTE	Trace Elements in urine	Co	Cobalt	7440-48-4
UTE	Trace Elements in urine	Cr	Chromium	7440-47-3
UTE	Trace Elements in urine	Cs	Cesium	7440-46-2
UTE	Trace Elements in urine	Cu	Copper	7440-50-8
UTE	Trace Elements in urine	Mg	Magnesium	
UTE	Trace Elements in urine	Mn	Manganese	7439-96-5
UTE	Trace Elements in urine	Mo	Molybdenum	7439-98-7
UTE	Trace Elements in urine	Ni	Nickel	7440-02-0
UTE	Trace Elements in urine	Pb	Lead	7439-92-1
UTE	Trace Elements in urine	Sb	Antimony	7440-36-0
UTE	Trace Elements in urine	Sn	Tin	7440-31-5
UTE	Trace Elements in urine	Tl	Thallium	7440-28-0
UTE	Trace Elements in urine	V	Vanadium	7440-62-2
UTE	Trace Elements in urine	Zn	Zinc	7440-66-6
UTE	Trace Elements in urine	Hg	Mercury	7439-97-6
UPAH	PAHs	NAP1	1-hydroxynaphthalene	90-15-3
UPAH	PAHs	NAP2	2-hydroxynaphthalene	135-19-3
UPAH	PAHs	PYR1	1-hydroxypyrene	5315-79-7
UPHENOL	Phenols	BP3	Benzophenone-3	131-57-7
UPHENOL	Phenols	BPA	Bisphenol A	80-05-7
UPHENOL	Phenols	BPF	Bisphenol F	620-92-8
UPHENOL	Phenols	BPS	Bisphenol S	80-09-1
UPB	Parabens	BUPB	Butyl paraben	94-26-8
UPB	Parabens	ETPB	Ethyl paraben	120-47-8
UPB	Parabens	MEPB	Methyl Paraben	99-76-3

UPB	Parabens	PRPB	Propyl paraben	94-13-3
UPHENOL	Phenols	TCC	Triclocarban	101-20-2
UPHENOL	Phenols	TCS	Triclosan	3380-34-5
UPHTH	Phthalates	MBZP	mono-benzyl phthalate	2528-16-7
UPHTH	Phthalates	MCPP	mono (3-carboxypropyl) phthalate (multiple)	66851-46-5
UPHTH	Phthalates	MECPP	mono (5-carboxy-2-ethylpentyl) phthalate (DEHP)	40809-41-4
UPHTH	Phthalates	MEHHP	mono (2-ethyl-5-hydroxyhexyl) phthalate	40321-99-1
UPHTH	Phthalates	MEHP	mono ethyl hexyl phthalate	4376-20-9
UPHTH	Phthalates	MEOHP	mono (2-ethyl-5-oxohexyl) phthalate	40321-98-0
UPHTH	Phthalates	MEP	monoethyl phthalate (DEP)	2306-33-4
UPHTH	Phthalates	MNBP	mono-n-butylphthalate (BzBP, DnBP)	34-74-2
UPHTH	Phthalates	MIBP	mono-isobutyl phthalate (DiBP)	30833-53-5
UPEST	Alkyl phosphate pesticide metabolites	PBA	3-phenoxybenzoic acid	3739-38-6
UOPFR	Organophosphorus Flame Retardants	BDCPP	Bis(1,3-dichloro-2-propyl) phosphate	72236-72-7
UOPFR	Organophosphorus Flame Retardants	DPHP	Diphenyl phosphate	838-85-7
UDILUTE	Urinary Dilution Factor	CRE	Creatinine	60-27-5

Targeted Comment Codes

Code	***Definition***
0	Valid measurement
37	Value less than LOD
93	Initial concentration higher than the highest standard
130	Value above LOD but below LLOQ

3. DESCRIPTION OF PUBLIC FILES

File Name	*Source*	*File Description*	*DOI**
1598 _TARGETED_DATA.csv	CHEAR	Urinary phenol, paraben, phthalate, creatinine, pesticide, trace elements, and PAHs data from children with 1 to 9 clinic visits.	10.36043/1598_316
1598_UPHENOL_UPB_UPAH_Methods.docx	CHEAR	Laboratory methods for measurement of urinary phenol, paraben, and PAH metabolites.	*NA*
1598_UPHTH_UOPFR_UPEST_Methods.docx	CHEAR	Laboratory methods for measurement of urinary phthalates, organophosphorus flame retardants, and alkyl phosphate pesticide metabolites.	*NA*
1598_UTE_Methods.docx	CHEAR	Laboratory methods for measurement of urinary trace elements/metals.	*NA*
1598_OLINK_DATA.csv	CHEAR	Normalized OLINK data from children with 1 to 9 clinic visits.	10.36043/1598_322
1598_OLINK_MAP.csv	CHEAR	Mapping file to merge epi dataset and epigenetics data.	*NA*
Data-normalization-and-standardization_v1.0.pdf	CHEAR	Description of OLINK methods.	*NA*
NPX_DataExplanation.pdf	CHEAR	Description of OLINK data formatting.	*NA*
1598_EPI_DATA.csv	Parent study	Epidemiological data including covariates and health outcome data from the TEDDY cohort.	10.36043/1598_320
1598_DDCB.xlsx	Parent study	Data dictionary and codebook for epidemiological data.	*NA*

*These DOIs do not function as journal article DOIs, which are direct links to an article. Instead, go to https://www.doi.org/ and paste in the HHEAR dataset DOI to access the data. You must have a HHEAR Data Submission and Review Portal (DSRP) Account to access the data.

4. ANALYTIC NOTES

- Please contact the Principal Investigator of the CHEAR study for questions related to datasets indicated with source "Parent study" in the table above and contact hhearsupport@mssm.edu for all other questions.
    - The Principal Investigator's name and contact information at the time of this publication is: Dr. Krischer at Jeffrey.Krischer@epi.usf.edu.
- When combining datasets, merge on SID if available, or else PID (and sample_collection_timepoint if available).
- The sample collection timepoint is measured in age in days of participant; this can be translated to visit number in the OLINK mapping file (1598_OLINK_MAP.csv).
- Visit our Resources page to download and view helpful tools. (https://hheardatacenter.mssm.edu/resources.asp)
- The HHEAR dataset DOIs do not function as journal article DOIs, which are direct links to an article. Instead, go to https://www.doi.org/ and paste in the HHEAR dataset DOI to access the data. You must have a HHEAR Data Submission and Review Portal (DSRP) Account to access the data.
    - Request an account at https://hheardatacenter.mssm.edu/.