

CHEAR Project # 2017-1762

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

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1. CITING CHEAR DATA

- A. The publication policy, which you agreed to upon registering to the CHEAR data repository, provides guidelines about citations.

https://mychear.cheарprogram.org/sites/default/files/CHEAR_Pub_Policy_Final.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	Teitelbaum, Susan L.	CHEAR Center for Data Science	U2CES026555
University of Minnesota	Peterson, Lisa A. and Hecht, Stephen S.	Minnesota CHEAR Exposure Assessment Hub	U2CES026533
Emory University	Miller, Gary W.	National Exposure Assessment Laboratory at Emory	U2CES026560

- 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 the original paper associated with each CHEAR project located on CHEARDatacenter@mssm.edu as well as the DOIs (Digital Object Identifier) associated with the data files used in your publication (refer to the study-specific page on the Data Repository for each file's DOI). 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: CHEAR_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 (study relevant codes listed below)
SL = saliva

Targeted Analyte Codes

Chemical Group Code	Full Chemical Group Name	Code	Full Chemical Name
USMOKE	Tobacco Metabolites	COT	Cotinine (free)
INFLAM	Inflammatory Markers	CRP	C-reactive Protein
INFLAM	Inflammatory Markers	IL8	Interleukin 8
INFLAM	Inflammatory Markers	IL10	Interleukin 10

Targeted Comment Codes

Code	Definition
0	Valid measurement
12	Run out-of-control; insufficient sample for repeat analysis
17	Quantity of sample insufficient for analysis
37	Value less than LOD
130	Value above LOD but below LLOQ
131	Value greater than ULOQ
199	Value below LLOQ, no LOD provided

3. DESCRIPTION OF PUBLIC FILES

<i>File Name</i>	<i>Source</i>	<i>File Description</i>
1762_Epi_DATA.csv	Parent study	Epidemiological dataset associated with children in this study
1762_Epi_DDCB.xlsx	Parent study	Data dictionary and codebook for epidemiological data
1762_COVAR2_DATA.csv	Parent study	Supplemental epidemiological dataset with combined race/ethnicity variable and collapsed categories for income
1762_COVAR2_DDCB.csv	Parent study	Data dictionary and codebook for supplemental epidemiological dataset
1762_COT_A_DATA.csv	CHEAR	Cotinine measurements in children’s saliva specimens
1762_COT_METHODS.docx	CHEAR	Laboratory methods for measurement of trace element concentrations
1762_COT_A_REPS_DATA.csv	CHEAR	Repeated cotinine measures from a subset of samples measured by LC-MS/MS method
1762_META_MAP.csv	CHEAR	Metabolomics data with appended SIDs are hosted on Metabolomics Workbench; the SID-PID map can be used to link these data to other data files for this project
1762_META_LINK	CHEAR	Hyperlink to Metabolomics Workbench for annotated and full feature metabolomic data
1762_INFLAM_DATA.csv	CHEAR	Inflammatory marker measurements in children’s saliva specimens
1762_INFLAM_METHODS.docx	CHEAR	Laboratory methods for measurement of inflammatory marker concentrations

4. ANALYTIC NOTES

- Please contact the Principal Investigator of the CHEAR study for questions related to datasets indicated with source “Parent study” on the table in the table above and contact chearsupport@mssm.edu for all other questions.
- Biospecimens were collected at baseline or at a 6-week follow-up visit (i.e., post tobacco cessation intervention); *Sample_collection_timepoint* and *smhabits* variables indicate the timepoint and intervention method, respectively.
- Datasets can be merged on *PID* and *Sample_collection_timepoint*.
- The 1762_COT_A_REPS_DATA dataset includes the repeated measurements of a subset of samples utilized to determine the intra-assay variability of the LC-MS/MS cotinine assay (1762_COT_A_DATA); as described in *Mahabee-Gittens, et al.*

References

Mahabee-Gittens, E.M.; Mazzella, M.J.; Doucette, J.T.; Merianos, A.L.; Stone, L.; Wullenweber, C.A.; A. Busgang, S.; Matt, G.E. Comparison of Liquid Chromatography Mass Spectrometry and Enzyme-Linked Immunosorbent Assay Methods to Measure Salivary Cotinine Levels in Ill Children. *Int. J. Environ. Res. Public Health* 2020, *17*, 1157.