

CHEAR Data Repository Data Submission Agreement

I. Introduction

The Children's Health Exposure Analysis Resource (CHEAR) was established by the National Institute of Environmental Health Sciences (NIEHS) to provide analytical and laboratory services to support researchers who want to include environmental exposure assessment in their studies. The Center for Data Science ("Data Center") at the Icahn School of Medicine at Mount Sinai will provide a data repository for storing epidemiologic and biomarker data that was previously collected in an approved CHEAR research study and for all new biomarker data generated by the CHEAR National Exposure Assessment Laboratory Network ("Lab Hubs").

This agreement is for purposes of submitting data to the CHEAR Data Repository.

II. Definitions

The CHEAR data repository is designed to store the collection of data from participants in research studies related to children's health. The CHEAR data repository will be housed at the Icahn School of Medicine at Mount Sinai. In order to take full advantage of such resources and maximize their research value, it is important that data be made available, on appropriate terms and conditions, to the largest possible number of qualified investigators in a timely manner.

All submitted data will be made available for public use access, after an embargo period, as publically accessible de-identified datasets. The embargo period is intended to allow for sufficient time for submission of primary publications based on the Submitter's (see below for definition) collected data. Investigators who collect the data have a legitimate interest in benefiting from their investment of time and effort. Data will be shared no later than the acceptance for first publication of the findings from the data set.

For purposes of this agreement, "data" refers to the information which have been collected and recorded from participants in any study, regardless of the source of funding. For human subjects, data include, but are not limited to, all research and clinical assessments and information obtained via interviews, direct observations, biomarker data, records reviews, genetic and genomic data, psychophysiological assessments, data from physical examinations, etc. The following are not included as data: laboratory notebooks, preliminary analyses, drafts of scientific papers, plans for future research, peer review reports, communications with colleagues, or physical objects, such as gels or laboratory specimens. A "Submitter" is defined as a researcher who has been approved by the CHEAR Access Committee to submit data to the CHEAR Data Repository, according to the policies laid out in the CHEAR Data Repository Submission Agreement. The Submitter will always have access to all of their submitted study specific data.

III. Instructions

1. The Submitter must read the CHEAR Data Repository Data Submission Agreement (SA) and complete and sign Section VII, Submitter Information and Certifications.
2. The signed SA should be scanned and the electronic version should be uploaded to the Submitter's account on <https://chearprogram.org>.

IV. Terms and Conditions

I request approval to submit data to the CHEAR Data Repository to share data for research purposes. I agree to the following terms:

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1. Research Project. These data will be submitted solely in connection with the "Research Project", specifically indicated and described in Section VII. Submitter Information and Certifications.

This SA covers only the Research Project as contemplated in Section VII. Submitter Information and Certifications and only for submission to the CHEAR Data Repository specified. Submitter will submit a completed SA for each research project for which submission is requested.

2. Non-transferability of Agreement. This SA is not transferable. Submitter agrees that substantive changes Submitter makes to the Research Project requires execution of a new SA, in which the new Research Project is designated. If the Submitter changes institutions and wishes to retain submission privileges to the CHEAR Data Repository the Submitter must submit a new SA in which the Submitter acknowledges and agrees to the provisions of the SA.

3. Non-Identification of Subjects. Submitted data can be a limited data set (a limited data set may include city; state; ZIP Code; elements of date; and other numbers, characteristics, or codes not listed as direct identifiers but no other PHI) or a de-identified data set, so long as it is in accordance with the submitting institution's policies and IRB. Submitter agrees not to disclose the identities of research participants to the CHEAR Data Repository.

4. Data Disclaimers. Submitter acknowledges that the CHEAR Data Center does not and cannot warrant the results that may be obtained by using any data included in the CHEAR Data Repository. The CHEAR Data Center disclaims all warranties as to the accuracy of the data in the CHEAR Data Repository or the performance or fitness of the data or data analysis tools for any particular purpose.

5. Supporting Materials. Submitter agrees to provide the CHEAR Data Repository with supporting information and documentation ("Supporting Materials") to enable efficient use of the submitted data by investigators unfamiliar with the data. These documents will be provided at the time of application process and by the time this data submission agreement is signed. Examples of supporting materials include:

- Data Dictionaries, codebooks
- Questionnaires
- Research protocols
- Study manuals

6. Data Accuracy. Submitter certifies to the best of his/her knowledge and belief that the data submitted to the CHEAR Data Repository are accurate. Submitter agrees to work with the Data Center Statistical core to ensure accuracy and quality of the data before biospecimen analyses commence. Submitter further agrees to notify the CHEAR Data Center as soon as possible after submission if the Submitter discovers quality concerns in the data that are submitted.

7. Notification to CHEAR of Publication. Submitter agrees to promptly notify the CHEAR Coordinating Center via email at <https://chearprogram.org> as to when and where a publication (or other public disclosure) from the Research Project will appear.

8. Data Access for Research and Non-Research activities. Submitter agrees that data and Supporting Materials submitted to the CHEAR Data Repository can be accessed and used broadly. The submitter will review and sign the Data Sharing Plan for the CHEAR Data Repository.

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Non-sensitive data such as summary information on the CHEAR study, data aggregates, and description of measured variables, and experimental method are always available to the public. At any time after data submission, an approved CHEAR study PI (data contributor) can access their own study-specific data, including results from the Lab Hub. Similarly, at any time after data submission, the members of the Data Center team can access all submitted data. Study participant individual level data will not be made available to the public within the agreed upon embargo period. Embargoed data will be available only to the study PI (data contributor) and members of the Data Center within the embargo period.

The Submitter agrees that after an embargo period, all submitted data will be de-identified according to the following criterion: the identities of subjects cannot be readily ascertained or otherwise associated with the data by the repository staff or secondary data users (45 C.F.R. 46.102(f)) and the de-identified data sets will be made available for public use access. Data will be shared no later than the acceptance for first publication of the findings from the data set. Anyone who would like access to the publically available de-identified datasets will register by completing a data user registration form on the website <https://chearprogram.org>.

9. Acknowledgments. In any and all oral and written presentations, disclosures, and publications (including abstracts, as space allows) based upon dataset(s) submitted to the CHEAR Data Repository, Submitter agrees to cite the CHEAR Network. Note that this is in addition to the acknowledgement of NIH support (<http://grants.nih.gov/grants/acknow.htm>). Sample acknowledgement text is provided:

Data used in the preparation of this article/presentation/etc. reside in the NIH-supported CHEAR Data Repository

10. Non-Endorsement; Liability. Submitter agrees not to claim, infer, or imply endorsement by the United States Government, the Department of Health & Human Services, the National Institutes of Health, or the National Institute of Environmental Health Science of the Research Project, the entity, or personnel conducting the Research Project or any resulting commercial product(s). The United States Government assumes no liability except to the extent provided under the Federal Tort Claims Act (28 U.S.C. § 2671-2680).

11. Submitter's Compliance with Institutional Requirements. Submitter acknowledges that these data were collected in a manner consistent with all applicable laws and regulations, as well as institutional policies. Submitter further acknowledges that the data were collected pursuant to an informed consent that is consistent with the data submission. The submitter will have provided evidence of approval by their institutional IRB to deposit their data into the CHEAR Data Center repository. This approval will indicate that data submission and subsequent data sharing for research purposes are consistent with the informed consent of study participants from whom the data were obtained.

12. Submitter's Permission to Post Information Publicly. Submitter agrees to permit the CHEAR Network to summarize and release for public use on the appropriate CHEAR Web site the Supporting Materials along with the Submitter's name and organizations/institutional affiliation.

13. Privacy Act Notification. Submitter agrees that information collected from the Submitter, as part of the SA, may be made public in part or in whole for tracking and reporting purposes. This Privacy Act Notification is provided pursuant to Public Law 93-579, Privacy Act of 1974, 5 U.S.C. Section 552a. Authority for the collection of the information requested below from the Submitter comes from the

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authorities regarding the establishment of the National Institutes of Health, its general authority to conduct and fund research and to provide training assistance, and its general authority to maintain records in connection with these and its other functions (42 U.S.C. 203, 241, 289I-1 and 44 U.S.C. 3101), and Section 301 and 493 of the Public Health Service Act. These records will be maintained in accordance with the Privacy Act System of Record Notice 09-25-0156 (<http://oma.od.nih.gov/public/ms/privacy/pafiles/0156.htm>) covering "Records of Participants in Programs and Respondents in Surveys Used to Evaluate Programs of the Public Health Service, HHS/PHS/NIH/OD." The primary uses of this information are to document, track, and monitor and evaluate the submission of data from clinical, basic, and population-based research activities and to notify Submitters in the event a potential error in the dataset is identified or in the event of updates or other changes to the database.

The Federal Privacy Act protects the confidentiality of the Submitter's NIH records. The NIH will use the information collected for the purposes described above. In addition, the Act allows the release of some information in the Submitter's records without the Submitter's permission; for example, if it is requested by members of Congress or other authorized individuals. The information requested in the SA is voluntary, but necessary for submitting data to the CHEAR Data Repository.

14. **Security.** Submitter will abide by the practices set forth in Section V. Information Security Best Practices and Security Standards for the use and security of data. The CHEAR Data Repository conforms to HIPAA and NYS Privacy regulations.

15. **Amendments.** Amendments to this SA must be made in writing and signed by authorized representative.

V. Information Security Best Practices and Security Standards

The purpose of these Security Best Practices and Security Standards, which are subject to applicable law, is to provide security standards and best practices for individuals who use the CHEAR Data Repository to submit, access, and analyze data.

The Data Center Portal system shall be the access route to the repository for approved CHEAR study data. This data will be uploaded through the Portal by the CHEAR study PI and by the Lab Hub performing the sample analysis. The Portal system and all associated data are kept on encrypted secure servers on the Mount Sinai Hospital network, which has a higher level of security than the Medical School network. All data will be encrypted. The Hospital network is audited by the Sinai Security Department and undergoes a full IRB review of its protocols every year. The Data Repository conforms to HIPAA and NYS Privacy regulations. The Data Center implementation of these provisions is reviewed and approved by the Mount Sinai HIPAA/Privacy Officer.

Before any data are accepted by the Data Center, the CHEAR study PIs will have provided evidence of approval by their institutional IRB to deposit their data, including biomarker data, into the CHEAR Data Center repository. This approval will indicate that data submission and subsequent data sharing for research purposes are consistent with the informed consent of study participants from whom the data were obtained.

Keeping CHEAR Data Repository information secure through these best practices is of the utmost importance. By signing this agreement, submitters agree to abide by the following Security Best Practices. Subject to applicable law, Submitters agree to immediately report breaches of data confidentiality to the CHEAR Data Repository.

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Security Best Practices

- Do not attempt to override technical or management controls to access data for which you have not been expressly authorized.
- Do not use your trusted position and access rights to exploit system controls or access data for any reason other than in the performance of the proposed research.
- Do not allow others to use your account, including the data that you have accessed from the CHEAR Repository. Each user must obtain and use their own account in order to access CHEAR data.
- Ensure that anyone directed to use the system has access to, and is aware of, CHEAR Data Repository Information Security Best Practices and Security Standards as well as all existing policies and procedures relevant to the use of the CHEAR Data Repository, including but not limited to 45 CFR Part 46.
- Follow the CHEAR Data Repository password policy which includes:
 - Choose passwords of at least seven characters including at least three of the following types of characters: capital letters, lower case letters, numeric characters and other special characters.
 - Change your passwords every six months.
 - Protect your CHEAR Data Repository password from access by other individuals—for example, store it electronically in a secure location.
- Notify the CHEAR Data Repository staff at <https://chearprogram.org> of security incidents, or any incidents of suspected fraud, waste or misuse of the CHEAR Data Repository or when access to CHEAR Data Repository is no longer required.

Security Standards

- Protect the data, providing access solely to authorized researchers permitted access to such data by your institution.
- Neither store nor transmit links between personally identifiable information and CHEAR Participant IDs (PIDs).
- When you download CHEAR Data Repository data, download the data to a secured computer, with strong password protection, and encrypted storage.
- For the computers hosting CHEAR Data Repository data, ensure that they have the latest security patches and are running virus protection software.
- Make sure the data are protected from anonymous access from users both inside and outside of the organization.
- If you leave your office, close out of data files or lock your computer. Consider the installation of a timed screen saver with password protection.
- When finished using the data, destroy the data or otherwise dispose of it properly.

VII. Submitter Information and Certifications

1. Submitter Information:

First Name: _____

Last Name: _____

Degree: _____

Academic Position (or Title): _____

Institution: _____

Department: _____

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Street Address: _____

City: _____

State/Province: _____

Zip/Postal Code: _____

Country: _____

Phone: _____

FAX: _____

Institutional E-mail Address: _____

Point of Contact (POC) Name
(if different from the Submitter):

POC Phone: _____

POC E-mail Address: _____

2. Signatures:

By signing and dating this SA as part of submitting data to the CHEAR Data Repository, and I certify that we will abide by the SA for the use of the CHEAR Data Repository. I further acknowledge that I have shared this document with any research staff who will participate in the use of CHEAR Data Repository.

CHEAR Project #: _____

Submitter Signature: _____

Date: _____