

Data Preservation in the DOE Comprehensive Epidemiologic Data Resource (CEDR)

*RHSP – Celebrating 30 Years of Scientific
Achievements*

Comprehensive Epidemiologic Data Resource (CEDR)

- **Created by SPEERA 1990 Report**
 - Secretarial Panel for the Evaluation of Epidemiologic Research Activities
- **Program Goals**
 - Increase transparency for worker & public health concerns
 - Advance science by making data available for validation and further evaluation
 - Support academic communities – data for students & teachers
- **Managed by ORISE for EHSS13 since 2002**



CEDR

- **What?**

- **Free, de-identified** data repository
- **1.5M+** workers
- **400+** datasets
- **4500+** citations
- **200+** historical documents

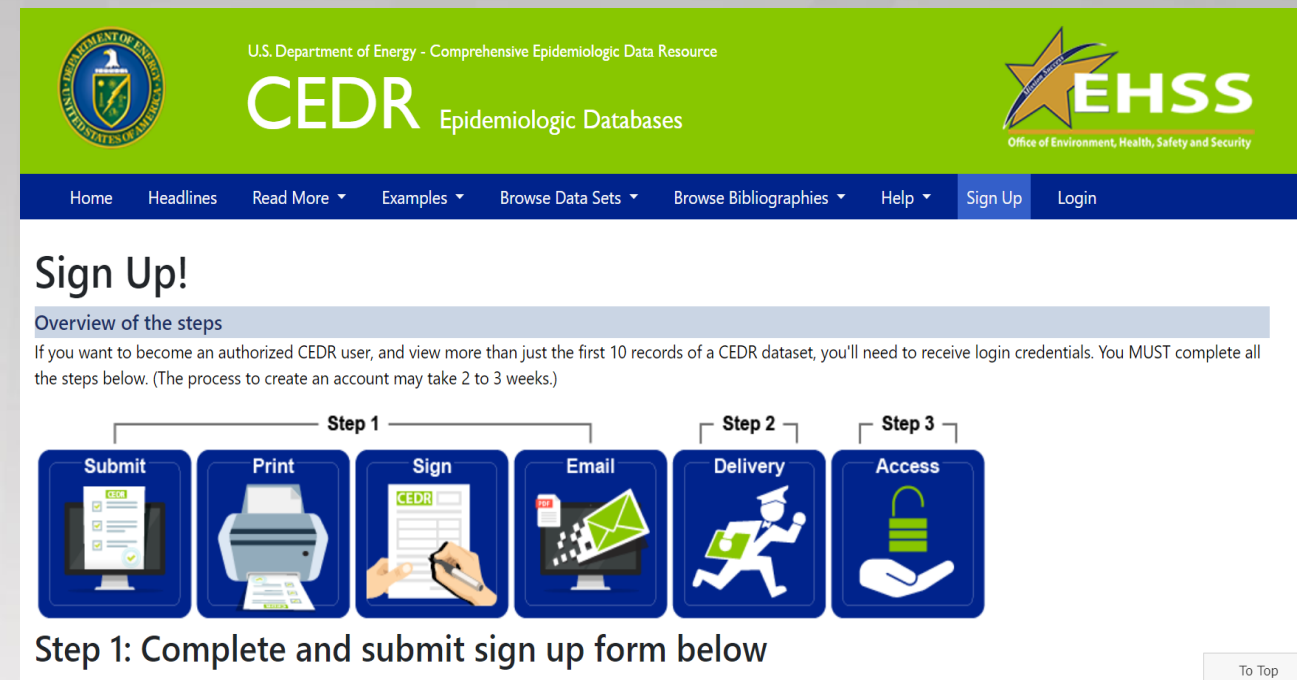
- **Who?**

- **108** Current users
- Average monthly visitors: **>5,500** from **39** countries, **32** states
- Submitters: researchers using DOE data (or funds) for health-related studies
- Users: researchers (public, private), teachers, students, historians, federal employees/policy makers



Access and Data Security

- Account required for full access
- All account requests are reviewed/approved by DOE
- Access is re-verified annually with new password assignment
- Additional enhancements on-going:
 - Implementation of Data Use Agreement
 - Tiered access based on account approval
- Data are de-identified
 - Unique study IDs, can be randomized
- Dates are masked: 15th of mon/year
- Data or variables may be suppressed
 - Health outcomes <5-10 cases
 - Request of PI
- Data can be categorized or summarized



U.S. Department of Energy - Comprehensive Epidemiologic Data Resource

CEDR Epidemiologic Databases

EHSS
Office of Environment, Health, Safety and Security

Home Headlines Read More Examples Browse Data Sets Browse Bibliographies Help Sign Up Login

Sign Up!

Overview of the steps

If you want to become an authorized CEDR user, and view more than just the first 10 records of a CEDR dataset, you'll need to receive login credentials. You MUST complete all the steps below. (The process to create an account may take 2 to 3 weeks.)

Step 1

Submit Print Sign

Step 2

Email Delivery

Step 3

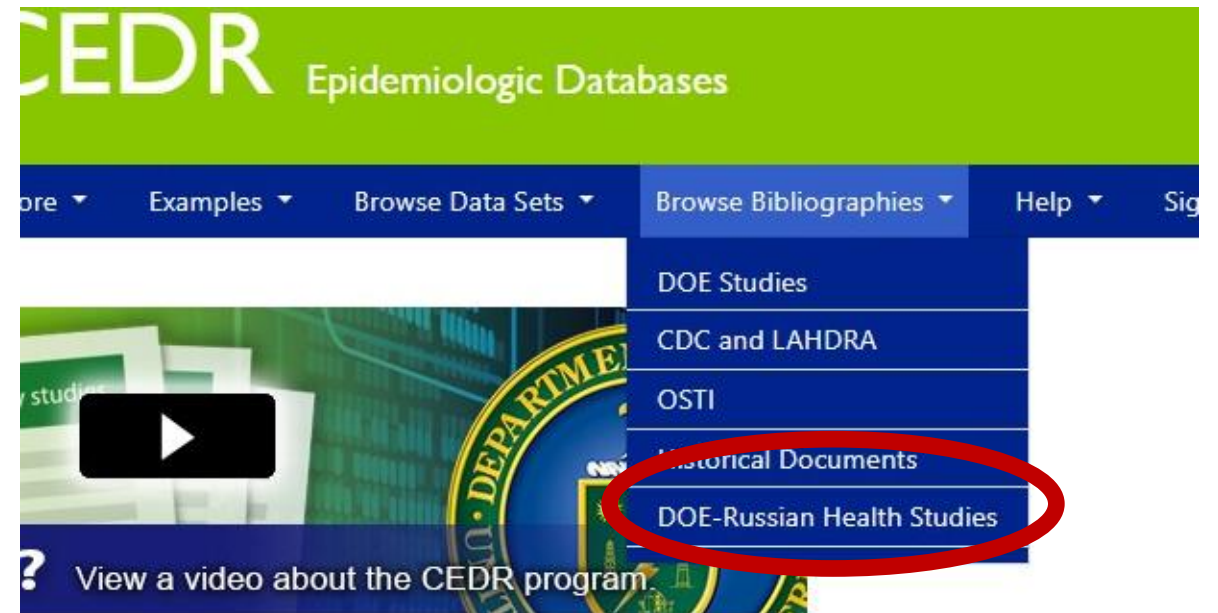
Access

Step 1: Complete and submit sign up form below

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Phase 1 – Archiving Publications

- **Make RHSP publications available for download through CEDR**
- **380 citations/manuscripts received**
 - 17 citations are missing PDFs
 - 111 PDFs (including 7 missing) are in Russian only
 - English versions available?
- **Add RHSP section**
- **Add tags for searching**
- **Add 508 compliance**
- **Update EHSS13 library**
 - Non-public access



Epidemiologic Data Resource (CEDR)

Phase 2 – Archiving Data for Future Use

- **Archive RHSP data, making available through CEDR as appropriate**
 - Archive section will be non-public
 - Considerations for which datasets can be made “public”
 - What approvals are needed?
 - What protections (masking, suppression, categorization, person-time tables, etc.)?
- **ORISE Approach**
 - Provide PIs examples of templates for data files and data dictionaries.
 - Discuss and implement data protections for each specific dataset with PIs.
 - Tag datasets and data dictionaries to ensure searchability.
 - Upload all files and connect to search functions
 - Upload of abstract (or study description) and citations associated with data.
 - QA/QC with study PI to ensure all elements are accurately displayed.

CEDR – Tiered Access Approach

Ease of Access

Easiest



Hardest

Tier Access Level 1 - Access to all to low risk datasets for educational purposes

- All individuals are deceased (ex: Radium dial painter data)
- Aggregate data (ex: person-time tables)
- Simulated data
- Demographic variables (sex, race, marriage status, etc.) are removed.
 - Only year of birth included, unless 5 or few individuals are born in a given year
- Only 3 characters provided for ICD codes

Tier Access Level 2 – Access to low and medium risk datasets for research purposes

- IRB determination required
- Access limited to requested datasets and variables
- Users may have access to all demographic data within specific dataset(s), if required

Tier Access Level 3 – Higher risk/concern datasets that require additional attention.

- IRB protocol required **and** approval by specified “owner” of dataset(s)
- Access limited to requested datasets and variables
- Example: The Russian Health Studies Program or the Former Worker Program data

What's the Goal?

- **Preserve the excellent work of the RHSP**
 - Highlight the valuable research and results achieved
 - Ease of future re-start, or use, of the program data and information
 - Make data and information available to other researchers

- **Assist EHSS13 in complying with Executive Order (EXEC-2022-006008) from OSTP by 2025**
 - *“Ensuring, Free, Immediate and Equitable Access to Federally Funded Research”*

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