National Institute for Environmental Health Sciences, Disaster Research Response Program

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❖ Disasters often affect the environment
  ➢ Need to know hazards
  ➢ Potential exposures of chemicals or other toxic materials

❖ If doing any type of human studies need to have Institutional Review Board approval in advance

❖ Rapidly change of rules and regulations,

❖ Lack of baseline data,

❖ Lack of survey instruments validated for specific populations and in local languages,

❖ Limited availability of community partners,

❖ Funding for rapid deployment of projects,

❖ Rapidly training and working with research assistants,

❖ Health and safety concerns of researchers and participants,

❖ Communicating with partners.

❖ Scott, M. A., Olszowy, K. M., Dancause, K. N., Roome, A., Chan, C., Taylor, H. K., Marañon-Laguna, A., Montoya, E., Garcia, A., Mares, C., Tosiro, B., & Tarivonda, L. (2023). Challenges and opportunities in rapid disaster research: lessons from the field in New Mexico and Vanuatu. Frontiers in sociology, 8, 983972. https://doi.org/10.3389/fsoc.2023.983972

- ❖ NIEHS is part of the National Institutes of Health

- ❖ Located in Research Triangle Park, North Carolina

- ❖ Mission—…*is to research how the environment affects biological systems across the lifespan and to translate this knowledge to reduce disease and promote human health*.

- ❖ Created in 2014

- ❖ Website: https://www.niehs.nih.gov/

❖Leads U.S. efforts and works with global partners to empower timely human health research in response to disasters and public health emergencies through:

➢Funding and resources to facilitate collection of perishable post-event exposure data.

➢Access to a collection of over 500 curated research surveys and tools, including a RAPIDD Protocol Designer, through the DR2 Program webpage.

➢Connection to a DR2 Community of Practice of researchers and public health practitioners.

➢Training & Education materials, workshops, and symposia.

Funding Opportunities

NIH Funding Opportunities

- RFA-MD-24-006 and RFA-MD-24-007: Innovations for Healthy Living - Improving Minority Health and Eliminating Health Disparities (R43/R44 - Clinical Trial Optional) ☐
This Notice of Funding Opportunity (NOFO) invites eligible United States small business concerns (SBCs) to submit Small Business Innovation Research (SBIR) grant applications that propose to develop a product, process or service for commercialization with the aim of improving minority health and/or reducing and ultimately eliminating health disparities in one or more populations that experience health disparities. Appropriate technologies should be effective, affordable, and culturally acceptable. There are many specific areas of research interest including preventing and minimizing adverse exposures and health risks (post-traumatic stress) or promoting health, well-being, resilience, and recovery resulting from disasters or the threat of a disaster.
First Available Due Date: May 10, 2024
Expiration Date: December 10, 2026

Special Call for Health Outcomes and Climate-Related Disaster Research ☐
The Natural Hazards Center ☐ — with support from NIH and the National Science Foundation — is issuing a special call for quick response research focused on health outcomes among groups disproportionately affected by climate-related disasters. This special call of the Quick Response Research Award program ☐ is designed to address gaps in knowledge by encouraging the ethical collection of perishable data and the rapid return of results through the publication of Quick Response Reports ☐. **Proposals for this special call will be accepted on a rolling basis until funds are exhausted.**

NIEHS Funding Information Website:
https://www.niehs.nih.gov/research/programs/disaster/funding-opportunities

DR2 Resources Portal

Global School-Based Student Health Survey (GSHS): Questionnaire

« Return to Search Results

Texas A&M University (TAMU) Rapid Acquisition of Pre- and Post-Incident Disaster Data (RAPIDD)

URL:	https://portal.niehs.nih.gov/dr2/unmanaged/files/24289_main_508.pdf
Resource Type:	Research Protocol
Related Resources:	See list of available resources
Source:	Texas A&M University Superfund Research Center
Contact:	Ivan Rusyn
Availability:	Publicly Available, No Cost
Common Data Elements:	No
Date Published:	04/15/2022
Date Record Updated:	01/09/2023
Description:	The Texas A&M University (TAMU) Rapid Acquisition of Pre- and Post- Incident Disaster Data (RAPIDD) Protocol was developed as a tool for researchers interested in gaining rapid IRB approval for studies involving environmental or natural disasters. The TAMU RAPIDD includes a protocol, information sheet, consent script, environmental sampling methods, and surveys all to be used during study development/implementation. (keywords: fire, fires, wildfire, wildfires)

Additional Descriptors

Administered By:	Trained Non-Expert
Administration Mode:	N/A
Administration Time:	N/A
Ease of Use:	Easy
Language:	English
Number of Survey Questions :	1-25
Resource Type:	Research Protocol
Study Population:	General, Age

- **Age:** Adult

Event Type: Chemical, Contamination or Release Event, Extreme Weather-Related Event, Geologic Event, Humanitarian Event, Infectious Disease Outbreak, Large-Scale Accident, Large-Scale Violence or Terrorism, Radiation, Contamination or Release Event

- **Extreme Weather-Related Event:** Drought Flood Hurricane Temperature Tornado or Wind Storm Wildfire
- **Geologic Event:** Earthquake Landslide Volcanic Eruption

Exposure Agent: Biological or Infectious Agent, Chemical Agent, Physical or Violence Agent, Radiological Agent

- **Biological or Infectious Agent:** Allergen Bacteria Mold/Fungus Virus

  - **Virus:** Dengue Ebola H1N1 Influenza SARS-CoV-2, SARS-CoV-1, MERS West Nile Virus Zika Virus

- **Chemical Agent:** Air Pollutant Asbestos Hormone Disruptor or Hormone Mimic Metal Mixture Nanomaterial Pesticide/Herbicide/Fungicide

  - **Air Pollutant:** Carbon Monoxide Ground Level Ozone Particulate Matter Polyaromatic Hydrocarbon

- **Physical or Violence Agent:** Bomb or Improvised Explosive Device (IED) Debris Noise

Health Impact or Organ System: Injury, Mental Health or Well-Being

Special Topics: Demographics, Lifestyle or Quality of Life, Perceptions, Social Determinants of Health, Social Support or Resilience

Funding Source: National Instiues of Health

- **National Instiues of Health Source Name:** NIEHS SRP

Related Resources

Consent Form
Oral Consent Script 🗎

Documentation
Information Sheet 🗎

Sample Collection Form
PFAS Sampling 🗎
SVOC Sampling 🗎

Survey/Questionnaire
12 Item Short Form Health Survey 🗎
Buckners Index of Cohesion 🗎
Items for Index of Perceived Community Resilience 🗎
Demographics and Basic Household Information 🗎
Environmental Health Threat and Trust 🗎
2020 Behavioral Risk Factor Surveillance System Survey 🗎

UNM COLLEGE OF NURSING

❖ Resource for disaster researchers

❖ Approved in 2015

❖ Goal to establish human subjects research protocol as basis for future research response during or immediately after a disaster

DISASTER RESEARCH CAFÉ

BIOSPECIMEN COLLECTION · PROTOCOL + SURVEYS · IRB ETHICS · SENSORS · CLINICAL TESTS · ENVIRONMENTAL SAMPLING

RESEARCH EMPOWERMENT

RAPIDD Protocol Designer Outline

What to Expect: RAPIDD Protocol Designer Outline

1. Study Type Selection
   - *Choose from RAPIDD Registry or RAPIDD PLUS (includes health and exposure measures)*
2. Institution and Personnel Information
3. Study Details
   - *Intended duration, inclusion/exclusion criteria, compensation, etc.*
4. Event Details
   - *If known - type, name, description/justification, sample size, accrual duration*
5. Questionnaire and Other Event-Related Tool Selections
6. Biospecimen and Environmental Sample Selections (if applicable)
7. Additional Resource Selections
   - *Informed Consent Form template, disaster training, SOPs, web resources, etc*
8. Protocol Review
   - *You will click through the protocol language and resources before getting to your final output*
9. Protocol Output (downloadable PDF)
   - *The final output will look similar to the NIEHS RAPIDD Protocol but the language and sections will tailored to your selections above*
   - ***NOTE: The final output is meant to be a *nearly complete* protocol for submission to your local IRB and will include links to any resources selected. You will still need to add some study-specific details to your protocol before finalizing/submitting.***

Community of Practice

❖ DR2 Environmental Health Sciences Network

❖ Intra-NIH Disaster Interest Group (IDIG)

❖ Annual Federal Interagency Disaster Research Meeting

❖ National Academies of Science, Engineering, and Medicine (NASEM) The Action Collaborative on Disaster Research

❖ International Initiatives
  ➢ Follows principles of Sendai Framework for Disaster Risk Reduction 2015-2030 and the Global Health Security Agenda
  ➢ Supports efforts of international researchers, governments, and organizations to promote understanding of disaster risk, capacity, exposure of persons and assets, hazard characteristics, and the environment.

Education and Training

❖Reports

❖Workshops

❖Institutional Review Board Preparedness for Disaster Research

❖NIEHS Worker Training Program Resources

❖Links to other training resources

Resources

❖ Articles & journals

❖ Bioethics

❖ Databases

❖ Library

❖ Outreach, community and leadership

❖ Protocols

❖ Research partners

❖ Software programs

❖ Technology transfer

❖ Training and visual guides