# CONVERGE Training Modules Series:

# Overview and Demo

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**CONVERGE is a National Science Foundation-supported facility that seeks to advance interdisciplinary collaboration and coordination in hazards and disaster research**

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# CONVERGE TRAINING MODULES

Each CONVERGE Training Module features learning objectives, lesson plans, written content, and case study vignettes. The modules also include a list of publications for further reading as well as access to related standardized scales and measures, online resources, data sets, and other information. Each module is followed by a short multiple choice quiz. Those who receive a score of 80% or higher will receive a CONVERGE Training Module Certificate of Completion and one contact hour of general management training through the International Association of Emergency Managers (IAEM) certification program.

## 5,364
### TRAINING MODULE REGISTRANTS

## 5,956
### SUCCESSFULLY COMPLETED MODULES

**Broader Ethical Considerations for Hazards and Disaster Researchers**

This Training Module focuses on the broader ethical considerations for conducting research in a disaster setting.

**Collecting and Sharing Perishable Data**

This Training Module focuses on ways to collect and share perishable hazards and disaster data.

**Conducting Emotionally Challenging Research**

This Training Module describes emotionally challenging research and highlights the ways that recognizing researchers' emotions can lead to more ethical and methodologically sound research practices in the context of extreme events.

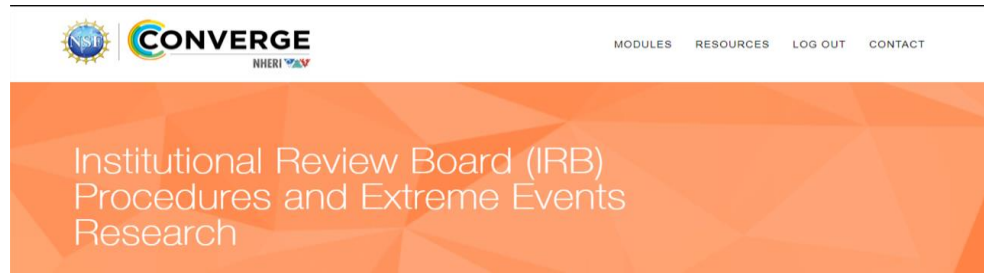**Cultural Competence in Hazards and Disaster Research**

This Training Module focuses on culturally competent research and offers guidance on how hazards and disaster researchers can build cultural competence.

**Disaster Mental Health**

This Training Module focuses on mental health outcomes associated with disasters, with a particular emphasis on risk factors over time that make certain populations vulnerable to poor disaster mental health outcomes.

# Overview

- **Lesson 1: Background**
- **Lesson 2: IRB Review and Approval**
- **Lesson 3: IRB and Extreme Events Research**
- **Lesson 4: Future Directions**

# History of the IRB

Institutional Review Board (IRB) Procedures and Extreme Events Research / Lesson 1: Background

LESSON PROGRESS                                    100% COMPLETE

The first institutionalized effort to regulate research involving human subjects arose after the Nuremberg Trials (1945-1946).

These trials were held in response to the human rights violations and inhumane research that was conducted by Nazi doctors on Jewish citizens and other marginalized groups in concentration camps during World War II. These research experiments, which were conducted without the consent of the persons involved, included various methods of severe torture and ultimately resulted in the death of many persons.

**Module Home**

- PRE-MODULE ASSESSMENT
- INTRODUCTION
- LESSON 1: BACKGROUND
  - Overview of Institutional Review Boards
  - History of the IRB
  - Ethical Principles & Regulations in Conducting Research
  - Informed Consent & Confidentiality
  - Assessment of Risks and Benefits
  - Selection of Participants
  - Knowledge Check
- LESSON 2: SEEKING IRB APPROVAL
  - Preparing an IRB Application
  - Submitting an IRB Application
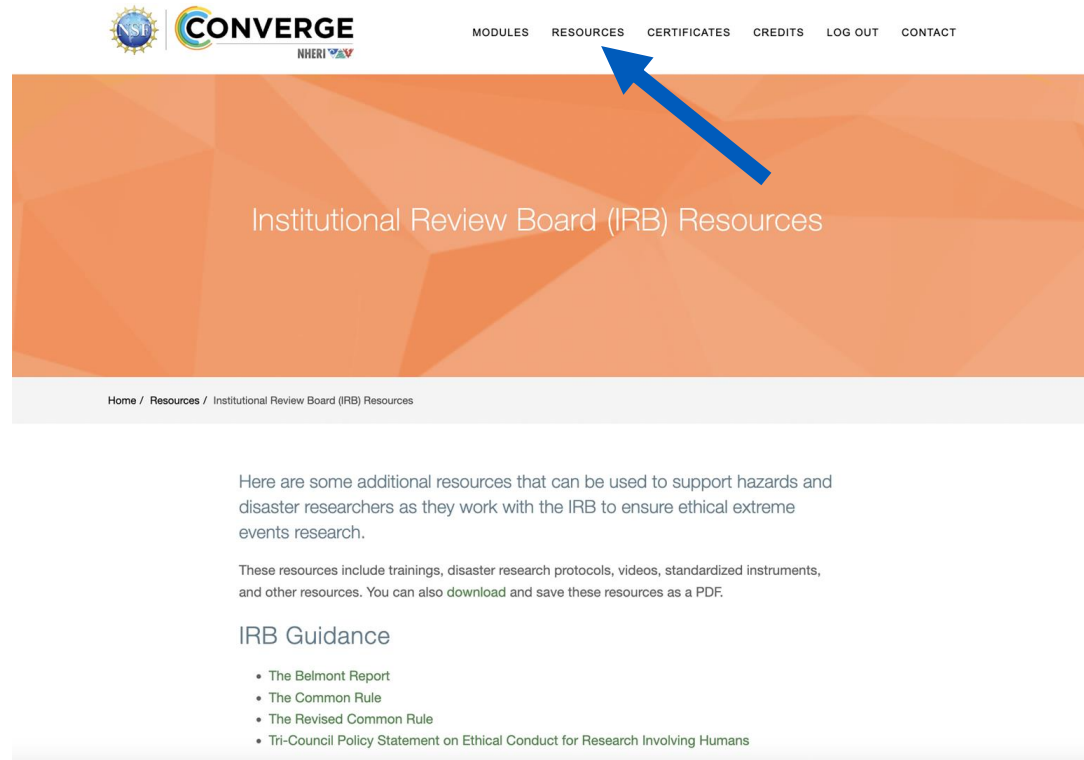  - Maintaining IRB Approval

# Key Content



- **Background information on the history and function of the IRB in the US**
- **Strategies for preparing and submitting a successful IRB application**
- **Specific challenges that can arise in navigating IRB approval in the context of disaster research**
- **Suggestions for how to improve the IRB process for disaster research**

# Additional Resources



- **Existing Measures**
- **Additional Readings**
- **Secondary Datasets**
- **Web-Based Tools**

# Annotated Bibliographies



**CONVERGE Institutional Review Board Annotated Bibliography**

This annotated bibliography includes resources focused on Institutional Review Board (IRB) procedures for hazards and disaster research. This bibliography is meant to support those interested in learning more about how to navigate the IRB process and to complement the CONVERGE Institutional Review Board and Extreme Events Research Training Module. These references were compiled through searching Web of Science and Google Scholar databases. If you identify missing references, please send them to converge@colorado.edu, and we will add them to the list.

**Citation**
Aarons, D. (2018). Research in epidemic and emergency situations: A model for collaboration and expediting ethics review in two Caribbean countries. *Developing World Bioethics, 18*(4), 375–384. https://doi.org/10.1111/dewb.12157

**Abstract**
Various forms of research are essential in emergency, disaster and disease outbreak situations, but challenges exist including the long length of time it takes to get research proposals approved. Consequently, it would be very advantageous to have an acceptable model for efficient coordination and communication between and among research ethics committees/IRBs and ministries of health, and templates for expediting (done with speed and efficiency) ethical review of research proposals in emergency and epidemic situations to be used across the Caribbean and in other low and middle income countries. This project involved a literature search and the interviewing of ministry of health officials, public health practitioners, and research ethics committee/IRB members in Jamaica and St. Lucia, to obtain suggestions for the best model for efficient coordination and communication between research ethics committees (RECs), and developed a template for expediting review of research protocols in epidemic and emergency conditions.

**Citation**
Aarons, D. (1995). Research ethics. *West Indian Medical Journal, 44*(4), 115-118.

**Abstract**
This article reviews the ethical requirements for research. The ethics of human experimentation are informed by the basic principles of beneficence, justice and respect for persons. The principle of beneficence requires that a research

# Quiz

- **Randomly generated 10- question quiz**
- **80% or higher receive Certificate of Completion**



1. QUESTION

To help establish competency in the review of disaster research, IRB members should receive basic training on _____.

- ○ disaster agents (natural, technological, and terrorism)
- ○ data collection
- ○ international contexts
- ○ emergency response research



1 Contact Hour of General Management Training

**CERTIFICATE** OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

*Candace Evans*

FOR COMPLETION OF

Collecting and Sharing Perishable Data

CONVERGE Training Module

This module focuses on collecting and sharing perishable data.

MAY 18, 2021
Date

Lori Peek, Ph.D.
Principal Investigator
NSF-NHERI CONVERGE

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