

Epidemiology and Modeling of Infectious Diseases in the Humanitarian Setting

Virtual Training

The COVID-19 pandemic has generated a wealth of epidemiological data and models that are needed for strategic scenario, programmatic, and safety planning in humanitarian settings. For this information to be used widely by the humanitarian community during this pandemic and any future large-scale outbreaks, stakeholders should be trained on the definitions and uses of infectious disease epidemiological data and models. **The goal of the training is to equip participants with foundational infectious disease epidemiology and modeling concepts to have a better command of the interpretation of common data that is available for humanitarian emergencies.** It will also explain and demonstrate how key data translates to models in large-scale disease outbreaks and prepares the learner to engage with and make use of epidemiological data and models in a variety of outbreaks. Upon completion of a 9 hour training over two to three weeks, participants should be able to use epidemiological data, models, and scenarios to inform their humanitarian work.

The *Epidemiology and Modeling of Infectious Diseases in the Humanitarian Setting* training is developed and administered by the READY initiative, a USAID/BHA funded consortium of partners led by Save the Children to augment global capacity for non-governmental organizations to respond to large-scale infectious disease outbreaks. For more information on READY, visit our website at www.ready-initiative.org.



INTENDED AUDIENCE

- INGO and NNGO national level leadership, program managers, and technical advisors responsible for program management, technical leadership, and strategy in their organization
- NGO regional leadership and technical advisers
- This training may also be applicable for UN cluster coordinators, sector leads, country directors, and regional advisers and donor field-based staff.



LEARNING OBJECTIVES

Upon completing this training, participants will be able to:

1. Explain the main objectives of infectious disease models in order to be able to correctly interpret models created for humanitarian settings
2. Describe one type of infectious disease model by identifying the key components of models and the data used to construct them
3. Summarize the potential uses, common assumptions, and limitations in infectious disease models used in humanitarian settings
4. Describe the main concepts of epidemiology of infectious diseases and epidemics to interpret the data used for infectious disease models
5. Describe the main characteristics of public health surveillance and its role in generating information in humanitarian settings and for infectious disease models



TRAINING DETAILS

Total Time: Approx. 9 hours

Training format:

- Ten online, self-paced training videos (2 hours)
- Four live, virtual training sessions (6 hrs 45 min)

Additional training features:

- Library of relevant technical resources and tools
- Technical support throughout the training

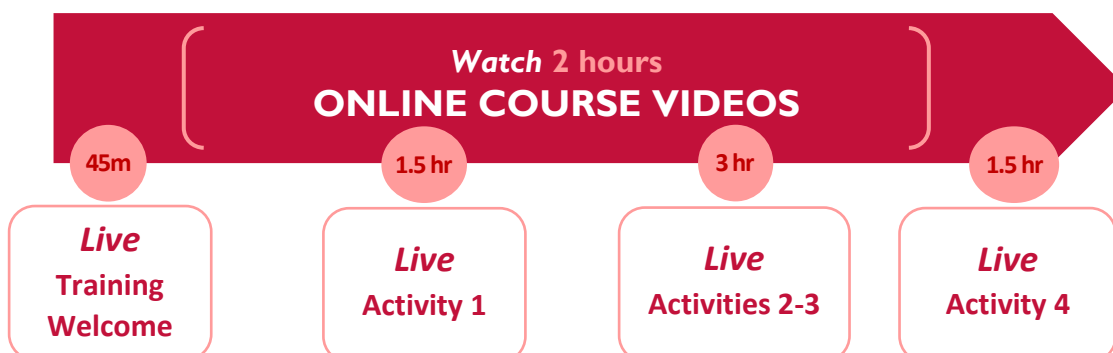
Training Start Dates:

- Africa – May 26th, 2021
- Global – June 21st, 2021

Questions?

- Visit our website at www.ready-initiative.org
- Contact us at ready@savechildren.org

TRAINING OUTLINE



LIVE SESSIONS

These meetings will be scheduled for each cohort, and will be held over Zoom during the training period.

I. Training Welcome – 45 minutes

- Meet the instructors
- Meet your course group
- Orientation to the content

II. Live Operational Trainings – 6 hours

- Apply the knowledge learned in online courses to a specific scenario
 - Hands on support to interpret data and infectious disease models
 - Discussion with experts on the uses and limitations of infectious disease models in humanitarian settings
 - Opportunity to discuss video content and skills checks
 - Technical support to troubleshoot access to the online platform
- **Activity 1** – 1.5 hours
 - **Activity 2-3** – 3 hours
 - **Activity 4** – 1.5 hours

ONLINE COURSE VIDEOS

These modules are to be completed at the learner's own pace, within the two week training period.

I. Introduction to Infectious Disease Epidemiology in Humanitarian Emergencies Part I

4 videos covering the main concepts of epidemiology of infectious diseases and epidemics

- What is Epidemiology?
- Key Epidemiological Actors in Humanitarian Emergencies
- Key Terms
- Metrics used in infectious disease epidemiology and modeling in humanitarian emergencies

II. Introduction to Infectious Disease Epidemiology in Humanitarian Emergencies Part II

1 video covering the main characteristics of public health surveillance

III. Understanding Infectious Disease Models in Humanitarian Settings

5 videos covering main concepts of infectious disease models and their uses in humanitarian settings

- Foundations of Modeling Infectious Diseases
- Examples of Modeling during the COVID-19 Pandemic

Questions?

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