CESMEL Health
Data for Health

CENTRE FOR RESEARCH IN THERAPEUTIC SCIENCES

CHART-SL
Excellence in Health Research and Training

CESMEL Health Workshop Announcement

Surveillance, Monitoring, Evaluation and Learning in Public Health Emergency Context

~~February 17th to 28th, 2025~~ DATE CHANGE

March 24th to April 4th, 2025

Nairobi, Kenya

Duration: Two weeks
Format: In Person

Introduction

As global health emergencies such as disease threats (pandemics or epidemics), natural disasters, and other crises become more frequent, maintaining resilient data and information systems is critical in effectively monitoring and timely adjusting response efforts. CESMEL Health, in collaboration with the Center for Research in Therapeutic Science (CREATES), Strathmore University Nairobi, Kenya and Centre for Health Research and Training (CHaRT)-Sierra Leone, is launching a training program designed to equip health professionals with the skills for resilient data and information systems during emergencies.

The CESMEL Health training on Surveillance, Monitoring, Evaluation, and Learning (SMEL) in Health Emergency Contexts will focus on providing participants with methods, approaches, tools, including emerging digital technologies such as data science, artificial intelligence (AI), and others to keep data systems operational, delivering accurate and actionable information for real-time decision-making. Participants will learn how to ensure data systems deliver high-quality information for tracking emergencies, adjusting interventions, and optimizing health system responses.

Key Learning objectives

- Equip participants with the skills to ensure continuous data system functionality during emergencies.
- Enable participants to analyze and interpret data for effective and real-time response adjustments in rapidly changing emergency contexts.
- Build participants' capacity to incorporate cross-sector data from human, animal, and environmental health sources, strengthening emergency response coordination through the One Health perspective.
- Apply community-centered data collection to improve SMEL accuracy in emergency contexts.

Content of the training

Designed to strengthen participants' abilities in SMEL, the workshop focuses on building resilient data practices that support real-time decision-making during public health crises. Key topics will include:

1. **Data Resilience and Continuity:** Techniques to ensure continuous data functionality in emergency contexts. This will also include developing a contingency SMEL plan, data tools, mobile collection methods, and backup strategies for data continuity.

2. **Real-Time Decision-Making in Crisis:** This will include scenario-based exercises on rapid data interpretation and decision-making and practical application of toolkits and templates for quick response adjustments.

3. **Advanced Technology Integration:** Introduction to cutting-edge tools like artificial intelligence, machine learning, and hands-on training in data visualization and creating interactive dashboards for monitoring real-time data trends. This will also include data protection and cybersecurity.

4. **One Health Approach for Emergency Response:** Integrating human, animal, and environmental health data to strengthen cross-sectoral response coordination. And include case studies on implementing One Health data strategies in outbreak scenarios.

5. **Community Engagement and Local Data Use:** This will include community-centered approaches for effective data collection, including strategies for integrating local insights into SMEL systems. Real-world examples will illustrate how local data can enhance response accuracy in emergency contexts.

6. **Hands-On Simulations and Crisis Labs:** Participants will apply what they have learned in a simulated "Emergency lab," where they will respond to mock emergency scenarios. Through these exercises, they will practice developing a contingency SMEL plan, managing data in real-time, enhancing their skills to make informed decisions and monitor progress under pressure.

Post-Workshop Benefits

Participants will join a network of experts who will provide post-extended access to SMEL, enabling them to effectively apply the tools and techniques learned during the training within their settings. We will create a 6 month mentor connect program, linking up to 3 participants to a mentor for regular engagement. In addition, we will set up an interactive online platform to exchange ideas, challenges, and solutions.

Target Audience

The training targets health professionals, program managers, technical experts, SMEL professionals, decision-makers, and public health officials directly or indirectly involved in health emergency response. It is also ideal for data scientists and analysts in the healthcare sector who seek to enhance their skills in data-driven crisis management. Eligible participants would have a background in health systems or SMEL and be interested in using emerging technologies, like AI and data science, to facilitate transforming decision-making in emergency settings.

Training Format

The training will include interactive lectures and practical exercises to deepen skills. The hands-on approach ensures participants gain the theoretical knowledge and practical tools necessary for effective SMEL systems and decision-making during health emergencies. In addition, participants will develop a contingency SMEL plan for health emergencies as an outcome of the training.

Registration

- Fee: **USD 3,899** - Fees include tuition, course materials, accommodation, and breakfast and lunch for the duration of the training. Travel or other expenses are not included. Note that Payment should be in full before registration is confirmed – Any cancellation may attract some fee.
- Deadline for registration & payment: **March 1st, 2025**
- Complete registration form at: **https://shorturl.at/PWXuD**

For more information, please contact: training@cesmelhealth.org