

A Disease Threat Anywhere is a Threat Everywhere.



Today's world is more connected than ever. In as little as 36 hours¹, a pathogen from a remote village can spread to all major cities in six continents. That is why it is critical to detect, report and respond to outbreaks in a timely manner.





1. Incident Occurs

A new or existing pathogen is introduced to a community and starts to spread.



Humans or animals start to feel ill or even die with similar symptoms.













CDC performs 24/7 global disease monitoring to identify potential incidents.

2. Outbreak Suspected

An outbreak is suspected. There are several ways to detect and verify a disease through reported cases or from event information.

Local clinics and hospitals see more people with symptoms such as fever, persistent diarrhea, cough and unexplained bleeding.

and organize information about events that are a potential risk.

Disease detective and surveillance teams capture



of disease found at local clinic.

Laboratory confirms cases



Teams monitor official and unofficial reports of potential disease events from a wide variety of sources including media, rumors, blogs, community members, etc.

CDC works with partners and Ministries of Health to find potential outbreaks through routine reporting of symptoms, lab test results and official and unofficial reports.

3. Investigation Started





send specimens for testing.

CDC trains countries how to test,

handle and safeguard samples.

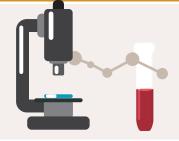
Countries conduct lab tests or



the source and size of the outbreak.

CDC trains disease detectives around

the world to stop the outbreak at the source.



Lab results confirm if patients test positive or negative for illness. Health authorities are alerted.



4. Reporting



national and international organizations in accordance with the International Health Regulations.

Authorities report disease outbreak to appropriate



CDC's global rapid responders are deployed

5. Global Response Initiated

when a country requests additional support to:





Improve local lab testing for faster diagnosis

Enhance local surveillance systems to track outbreaks

CDC is at the frontline of disease detection and response, working 24/7

ensures that outbreaks are contained before they can spread and reach the U.S. 1. Jonas, Olga B.. 2013. Pandemic Risk. World Bank, Washington, DC. © World Bank. https://openknowledge.worldbank.org/handle/10986/16343 License: CC BY 3.0 IGO. U.S. Department of

to protect the health, safety, and security of American people. CDC's work

