

# DEADLY INFECTIONS



In Haiti, the Rabies Team and partners vaccinated more than 37,000 dogs in just 18 days in 2017 as part of a months-long campaign.

## HOW WE KEEP AMERICANS SAFE

Germes that cause Ebola, anthrax, rabies, smallpox, and plague, also called “high-consequence pathogens,” require expert oversight, especially because of the threat of bioterrorism.

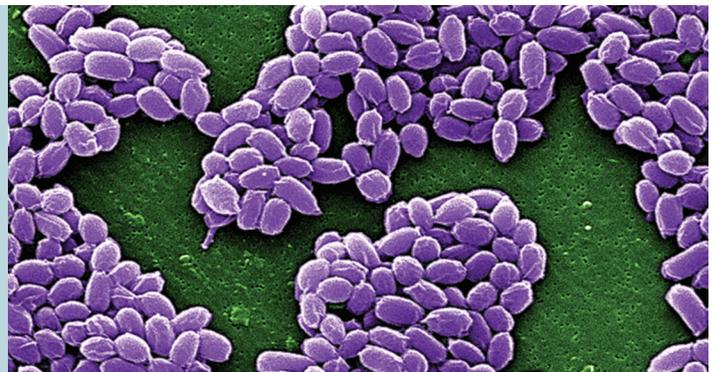
NCEZID places a high priority on understanding and tracking these diseases domestically and globally, operating state-of-the-art laboratories that can identify them, and preventing their spread.

**NCEZID has world-renowned experts in the world's deadliest diseases like Ebola, anthrax, and rabies.**

### THE WORK OF CDC'S

**National Center for Emerging and Zoonotic Infectious Diseases (NCEZID)** is about protecting America's health, safety, and security. NCEZID is ground zero when there's an outbreak of infectious disease. We have world-class scientists, researchers, laboratories, and emergency responders to protect people from deadly diseases like Ebola and anthrax.

Anthrax is a serious infectious disease caused by bacteria known as *Bacillus anthracis*.



**National Center for EMERGING and ZONOTIC INFECTIOUS DISEASES**  
Division of High-Consequence Pathogens and Pathology





The dwarf tapeworm is the most common tapeworm found in people.



NCEZID scientists investigate unexplained deaths and diseases of unknown origin.

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## What we're doing:

- NCEZID studies diseases caused by **highly hazardous bacteria** (like anthrax) **and viruses** (like Ebola). After the Ebola epidemic of 2014, scientists continue to conduct follow-up studies with survivors to learn what long-term symptoms they may face, how long the virus can persist, and how some people are better able to survive Ebola.
- NCEZID scientists also investigate unexplained deaths and diseases of unknown origins. Uncovering new infectious diseases contributed to the identification of the agents that cause **SARS** and **hantavirus pulmonary syndrome**. Recently, NCEZID pathologists were amazed when they found a new disease—tapeworms growing inside a person essentially getting cancer that spreads to the person, causing tumors. It is the first-known case of a person becoming ill from cancer cells that arose in a parasite—in this case, the **dwarf tapeworm**, the most common tapeworm in people.
- An important part of the mission to keep deadly diseases at bay is to investigate and find new ways to **prevent zoonotic infections** that spread between animals and people. Although rabies is a vaccine-preventable disease, close to 60,000 people die from the disease around the world each year. The NCEZID Rabies Team has traveled throughout the world to reduce rabies in countries like Ethiopia, Vietnam, and Haiti, where rabies from dogs is common.



NCEZID scientists who work in the BSL-4 laboratory with the world's deadliest germs shower before they exit the sealed confines of the lab.