DEMONSTRATED SUCCESS FROM SCALING UP INTERVENTIONS

Malaria deaths in Africa were reduced by 44% between 2000 and 2019

600 million people no longer require interventions against several NTDs

Global control efforts have reduced the number of people with Guinea worm disease to below 30 in 2020

Improved education and awareness in the United States is also helping protect Americans from Chagas disease

WHY CARE?

Parasitic diseases, including malaria and neglected tropical diseases (NTDs), cause devastating illness among billions of people and economic burden around the world and in the United States, threatening local populations, businesses, travelers, and American defense forces.

409,000 people died from malaria in 2019, and millions become ill each year, including about 2,000 returning travelers in the United States each year

1 billion people have NTDs that cause blindness, malnutrition, anemia, and disfigurement

300,000 people in the United States are infected with the parasite that causes Chagas disease, and 300 infected babies are born every year

Toxoplasmosis, a leading cause of foodborne illness, affects more than 40 million people in the United States and can cause acute and chronic illness, and death

Many parasitic diseases can be prevented. If they do occur, fast and accurate diagnosis is critical for appropriate treatment.

SAVING LIVES and PROTECTING PEOPLE from PARASITIC DISEASES

Parasitic diseases can be transmitted to people:

- by insects or other animals
- through contaminated food, soil, or water
- through blood or organ donation
- from mother to baby
### CDC’s EFFORTS
CDC’s Division of Parasitic Diseases and Malaria translates science into action.

<table>
<thead>
<tr>
<th>Ensuring prevention, diagnosis, and treatment of parasitic diseases in the United States</th>
<th>Reducing the global burden of malaria</th>
<th>Reducing the global burden of priority NTDs</th>
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<td>Working with healthcare providers to deliver life-saving diagnosis and treatment of parasitic diseases in the United States and disseminating up-to-date, data-driven guidelines and recommendations for public health partners and the public</td>
<td>Reducing global deaths, illness, and risk of malaria by providing scientific leadership and support to ensure effective disease prevention, control, and elimination programs</td>
<td>Developing tools and approaches to better detect, prevent, and control NTDs and assisting countries with implementing their programs</td>
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### SPOTLIGHT ON KEY CDC ACCOMPLISHMENTS AND ACTIVITIES

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<th>Co-implements with U.S. Agency for International Development (USAID) the U.S. President’s Malaria Initiative in 24 countries and the Greater Mekong Subregion</th>
<th>Conducts thousands (more than 4,000 in 2020) of diagnostic tests each year, and offers DPDx, an online resource, to provide diagnostic assistance and training in laboratory identification of parasites</th>
<th>Serves as a global resource through its World Health Organization (WHO) Collaborating Centers for Guinea worm, malaria, and trachoma, as well as a world-renowned insectary and laboratories</th>
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<td>Supports efforts to eliminate malaria from Haiti, and efforts to eliminate lymphatic filariasis from Haiti and American Samoa</td>
<td>Employs a highly sensitive laboratory multiplex assay that can simultaneously detect infections from more than 30 viral, bacterial, and parasitic pathogens using a single, small blood sample</td>
<td>Assesses the pilot implementation of a new malaria vaccine (RTS,S) in western Kenya</td>
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<td>Uses Advanced Molecular Detection (AMD) methods to detect and characterize parasitic infections, and to monitor for malaria drug and insecticide resistance</td>
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### WHAT’S NEEDED?

- **Modernize** the diagnosis of parasitic diseases to keep pace with emerging parasites and advances in technology
- **Increase awareness, education, and available data** on parasitic diseases in the United States
- **Continue scale up** of proven interventions
- **Expand and strengthen** surveillance for data-driven decision making
- **Monitor and mitigate** threats from malaria insecticide and drug resistance
- **Develop and deploy** new tools and approaches

### FOR MORE INFORMATION
To learn more about CDC’s work to prevent, control, and eliminate parasitic diseases, visit [www.cdc.gov/parasites](http://www.cdc.gov/parasites)