CDC Global Health
Saving Lives Overseas, Protecting Americans at Home
CDC Overview

- Part of the U.S. Department of Health and Human Services, CDC is the nation’s leading public health agency, dedicated to saving lives and protecting the health of Americans
- Headquartered in Atlanta, with facilities in 10 additional locations in the U.S. and in more than 60 countries
- More than 12,000 employees in nearly 150 professional disciplines
- CDC’s budget in 2017: $7.2 billion
CDC Funding in Fiscal Year 2017

**$1.4 Billion**
Protect Americans from Natural and Bioterrorism Threats
- $1.4 Billion—Public Health Preparedness and Response

**$2.5 Billion**
Protect Americans from Infectious Diseases
- $585 Million—Emerging and Zoonotic Infectious Diseases
- $1.12 Billion—HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
- $794 Million—Immunization and Respiratory Diseases

**$1.54 Billion**
Prevent the Leading Causes of Disease, Injury, Disability, and Death
- $138 Million—Birth Defects, Developmental Disabilities, and Disability and Health
- $1.12 Billion—Chronic Disease Prevention and Health Promotion
- $286 Million—Injury Prevention and Control

**$489 Million**
Monitor Health and Ensure Laboratory Excellence
- $489 Million—Public Health Scientific Services

**$551 Million**
Keep Americans Safe from Environmental and Work-related Hazards
- $216 Million—Environmental Health
- $335 Million—Occupational Safety and Health

**$435 Million**
Ensure Global Disease Protection
- $435 Million—Global Health

**$284 Million**
Cross-cutting Support and PHHS Block Grant and Buildings and Facilities
- $274 Million—Cross-cutting Activities and Program Support
- $10 Million—Buildings and Facilities

*Totals have been rounded to nearest million.*
CDC Works 24/7 to Keep America Healthy, Safe and Secure

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<th>Putting Science Into Action</th>
<th>Respond, Contain and Eliminate Health Threats</th>
<th>Strengthening our Communities</th>
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<td>• Turning new research into tools and actions to save more lives</td>
<td>• 100+ labs identify diseases, food and waterborne outbreaks, biosecurity threats and environmental hazards</td>
<td>• Working with state, local, tribal and territorial health departments to investigate and protect against health threats</td>
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<td>• Tracking diseases to take the pulse of America’s health</td>
<td>• Trusted world class scientists discovering microbes that threaten Americans</td>
<td>• Providing states with support and technical engagement to increase their impact</td>
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CDC 50 Years in Global Health | Achievement and Challenge

CDC first travels overseas, assists in Southeast Asia smallpox and cholera outbreaks

Global eradication of smallpox certified

SARS first reported in Asia

Ebola outbreak in West Africa

1958
Foreign Quarantine Service joins CDC

1967
Elimination of polio certified in the Americas

1979
SARS first reported in Asia

1994
Novel H1N1 influenza pandemic

2003
Zika Virus outbreak in Brazil

2009
PEPFAR, PMI, H5N1 and H1N1 influenza, GHSA

2014
Malnutrition and famine, Lassa, Ebola

1960s-1970s

1980s-1990s

2000s-2010s

HIV/AIDS, tuberculosis, malaria, polio
CDC’s Global Health Expertise

- Surveillance and strategic information systems
- Laboratory system strengthening and networks
- Public health workforce strengthening
- Public health emergency response
- Translational, implementation and operational research
Center for Global Health

Division of Global HIV & TB
Division of Parasitic Diseases and Malaria
Global Immunization Division
Division of Global Health Protection

OFFICE OF PUBLIC HEALTH PREPAREDNESS AND RESPONSE
NATIONAL CENTER FOR EMERGING AND ZOONOTIC INFECTIOUS DISEASES
NATIONAL CENTER FOR HIV/AIDS, VIRAL HEPATITIS, STD, AND TB PREVENTION
NATIONAL CENTER FOR IMMUNIZATION AND RESPIRATORY DISEASES
OTHER PROGRAMS
**VISION**
A world where people live healthier, safer and longer lives

**MISSION**
Protect and improve health globally through science, policy, partnership, and evidence-based public health action

**HEALTH IMPACT**
Improve the health and well-being of people around the world

**HEALTH SECURITY**
Improve capabilities to prepare and respond to infectious diseases, other emerging health threats, and public health emergencies

**HEALTH CAPACITY**
Build country public health capacity

**ORGANIZATIONAL CAPACITY**
Maximize potential of CDC’s global programs to achieve impact
Country Office Coordination and Implementation

Example from Nigeria

- **GLOBAL HIV/AIDS**
- **PRESIDENT’S MALARIA INITIATIVE**
- **CDC NIGERIA FIELD EPIDEMIOLOGY TRAINING PROGRAM**
- **GLOBAL IMMUNIZATION POLIO**

**“ONE HEALTH”**
CDC’s Global Health Partnerships

U.S. GOVERNMENT

PHILANTHROPIC ORGANIZATIONS

NON-GOVERNMENT ORGANIZATIONS

UNITED NATIONS AGENCIES

PRIVATE SECTOR

ACADEMIC INSTITUTIONS

COUNTRY GOVERNMENTS

PROFESSIONAL ASSOCIATIONS
Division of Global HIV & TB (DGHT)

Center for Global Health

- Division of Global HIV & TB
- Division of Parasitic Diseases and Malaria
- Global Immunization Division
- Division of Global Health Protection
The Impact of CDC’s Global HIV and TB Efforts

- **Antiretroviral Treatment for Men, Women, and Children**: PEPFAR: 11.5 Million, CDC: 6.4 Million
- **Antiretroviral Treatment to Prevent Mother-to-child Transmission**: PEPFAR: 760,500, CDC: 411,000
- **Voluntary Medical Male Circumcisions (VMMC)**: PEPFAR: 11.7 Million, CDC: 6 Million
- **HIV-Positive Persons Screened in Care for TB**: PEPFAR: 6.1 Million, CDC: 3.5 Million
- **HIV Counseling & Testing**: PEPFAR: 74.3 Million, CDC: 45.5 Million

Sources: [U.S. President’s Emergency Plan for AIDS Relief (PEPFAR)]

*Other USG agencies may have also contributed to some of these achievements. **As of Sept 30, 2016 ***FY2016 ****Cumulative through Sept 30, 2016
Division of Parasitic Diseases and Malaria (DPDM)

Center for Global Health

- Division of Global HIV & TB
- Division of Parasitic Diseases and Malaria
- Global Immunization Division
- Division of Global Health Protection
Progress Against Parasitic Diseases and Malaria

**Improved** diagnosis and treatment of parasitic diseases in the U.S.

**6.2 million malaria deaths averted** from 2001-2015, mainly among children in Africa, representing a **60% decrease globally**

**1.6 billion courses of** treatment distributed through global efforts to treat neglected tropical diseases
Global Immunization Division (GID)

Center for Global Health

- Division of Global HIV & TB
- Division of Parasitic Diseases and Malaria
- Global Immunization Division
- Division of Global Health Protection
Global Immunization: Impact

- 99% reduction in the number of wild polio cases since 1988
- Only three countries have endemic polio cases: Pakistan, Afghanistan, and Nigeria

Global measles deaths worldwide reduced by 79% between 2000 and 2014

New and underutilized vaccines alongside the continued use of measles vaccine are estimated to save 23.3 million lives overall from 2011 to 2020 in low-income countries
Division of Global Health Protection (DGHP)

Center for Global Health

- Division of Global HIV & TB
- Division of Parasitic Diseases and Malaria
- Global Immunization Division
- Division of Global Health Protection
Advancing Global Health Security:

- DETECTING AND RESPONDING TO EMERGENCIES
- NEUTRALIZING THREATS AT THE SOURCE
- BUILDING PARTNERSHIPS
Division of Global Health Protection

Global Health Security

**Emergency Response**
- More than 400 CDC staff ready to deploy anywhere

**Workforce Development**
- More than 10,000 disease detectives trained

**Disease Detection**
- More than 30-40 outbreaks monitored/reported daily

**Pathogen Discovery**
- Discovered 11 pathogens that were identified for the first time anywhere in the world

**Joint External Evaluation (JEE)**
- CDC staff have participated more than 70% of completed JEEs
GHSA Targets

- Antimicrobial Resistance
- Zoonotic Diseases
- Biosafety/Biosecurity
- Immunization
- National Laboratory System
- Surveillance
- GHSA Reporting
- Workforce Development
- Emergency Operations Centers
- Link Public Health and Law Enforcement
- Medical Countermeasures
Joint External Evaluation (JEE)

Countries

- JEEs Completed – 52
- JEEs in Pipeline – 25

Updated August 4, 2017
Data Source: WHO
2015-2019 Emergency Funding USG

CDC received $1.77B of $6B

- $603M International Ebola Response
- $597M Global Health Security Agenda
- $571M U.S. Domestic Preparedness

CDC received 1.77% of $6B
NCEZID Global Health Priorities and Partners

- Global Antimicrobial Resistance
- Developing New and Better Technologies for Emerging Infectious Diseases
- Prioritizing Zoonotic Diseases and One Health
- Improving Outbreak Response Capacities
NCIRD’s Global Pathogens and Partnerships

Influenza:
- National Influenza Centers (NIC)
- Influenza Reagent Resource (IRR)
- Partnership for Influenza Vaccination Introduction (PIVI)

Meningitis:
- MenAfriVac™
- MenAfrinet

Polio:
- WHO Global Polio Laboratory Network

Pathogen name is weighted by frequency of activity
Office of Public Health Preparedness & Response

- Train future response leaders in emergency management
- Provide technical assistance to build Public Health Emergency Operations Center
- On-site workshops allowed Ethiopia, Uganda, and Cameroon to outline plans for sending and receiving medical countermeasures and public health and medical personnel
Summary

• CDC works 24/7 at home and globally to reduce threats to the nation’s health and economy

• CDC experts in headquarters and assigned in CDC country offices, Ministries of Health, and multilateral institutions establish a unique global network focused on HIV, malaria, polio, measles, TB, influenza, AMR and other global health priorities

• The FY2015-2019 emergency appropriation for Global Health Security has resulted in important progress towards a world more prepared to stop infectious diseases at their source; there is still more we must do to protect America and the world from existing and emerging infectious disease threats

• CDC relies on diverse collaborations and partnerships to advance shared global health priorities
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