Collecting born-digital resources documenting the 2014 Ebola Outbreak

Source: WHO, October 1, 2014
What is Web Archiving?

The process of gathering up (harvesting) data that has been published on the Web, storing it, ensuring the data is preserved in an archive, and making the collected data available for future research.

--International Internet Preservation Consortium (IIPC)
Why Archive the Web?

- Information published on the Web today will be the primary resources for future researchers.

- “A significant amount of the data that permeates nearly all aspects of life, culture, and scholarship today will not be available at a library or an archives unless attention and priority is paid to actively collecting born-digital materials”

  --National Digital Stewardship Alliance (NDSA)
Web collecting at NLM

- Archiving NLM institutional content since 2003
- NLM Web Collecting and Archiving Working Group
- Archive-It partners since 2009
- Pilot collection on Health and Medicine Blogs
NLM web archive collections

- Avian Influenza A (H7N9) Virus
- Disorders of the Developing and Aging Brain: Autism and Alzheimer’s on the Web
- NLM institutional web content
- Global Health Events
NLM Congressional Mandate

“to collect and preserve scholarly and professional literature about health, medicine, and the biomedical sciences, irrespective of format.”
NLM Collection Development Policy

- Record progress in research in biomedicine and the related areas of the life sciences
- Document the practice and teaching of medicine broadly defined
- Demonstrate how health services are organized, delivered and financed
- Chronicle the development and implementation of policy that affects research and the delivery of health services
- Illustrate the public perception of medical practice and public health

Subjects

- Addiction Medicine
- Aerospace Medicine
- Allergy and Immunology
- Anatomy
- Anesthesiology
- Anthropology
- Behavioral Medicine
- Biochemistry
- Bioengineering
- Bioethics
- Bioinformatics
- Biological Sciences
- Biomechanics
- Biomedical Imaging
- Biomedical Research
- Biophysics
- Cardiology
- Cell Biology
- Chemistry
- Clinical Laboratory Science
- Cognitive Science
- Communication Disorders
- Complementary and Alternative Medicine
- Cytology
- Dentistry
- Dermatology
- Disaster Management
- Education for the Health Professions
- Embryology
- Emergency Medicine
- Endocrinology
- Environmental Health
- Exercise Science
- Family Practice
- Forensic Medicine
- Gastroenterology
- Genetics
- Geriatrics
- Gynecology
- Health Communication
- Hematology
- Histology
- History of Medicine
- Human Nutrition
- Infectious Diseases
- Internal Medicine
- Laboratory Animal Science
- Medical Botany
- Medical Genetics
- Medical Humanities
- Medical Informatics
- Medical Sociology
- Medicine
- Microbiology
- Military Medicine
- Molecular Biology
- Molecular Medicine
- Nephrology
- Neurology
- Neuroscience
- Nursing
- Obstetrics
- Occupational Health and Safety
- Oncology
- Ophthalmology
- Optometry
- Orthopedics
- Public Health
- Pulmonary Medicine
- Radiology
- Religion and Medicine
- Reproductive Medicine
- Rheumatology
- Space Life Sciences
- Sports Medicine
- Surgery
- Therapeutics
- Toxicology
- Urology
- Veterinary Medicine

Disaster Management
Emergency Medicine
Infectious Diseases
Public Health
NLM Subject: Disaster Management

- Health planning and policies
- Health facilities management
- Public health workforce training
- Communicable disease control
- Emergency medical services
- Psychological preparedness and response
- Risk management
- Health information systems
- Laboratory diagnosis and characterization

“NLM may select examples of broader works on disaster management to document the public response to specific events or the social, political and cultural context of public health.” (NLM Collection Development Manual)
Ebola Update
CDC and Texas Health Department Confirm First Ebola Case Diagnosed in the U.S.

What's New

2014 Ebola Epidemic
Learn about the Signs, Symptoms, Transmission and Prevention of Ebola.

CDC Team Assisting in Dallas
CDC Team Assisting Ebola Response in Dallas as Investigation of First U.S. Case Underway.

Ebola Case Diagnosed in U.S.
CDC and Texas Health Department Confirm First U.S. Ebola Case.

Enterovirus D68
Facts about Enterovirus D68.

http://www.cdc.gov/ on October 2, 2014

- U.S. Federal Organizations
- U.S. Organizations
- International Organizations
- National Government (non-U.S.) Web Sites
- Free Resources from Publishers for Medical Responders
- Biomedical Journal Literature and Reports
- Ebolavirus Information Sources
- Diagnostic Testing for Ebola
- Ebola Treatment Drugs in Development & Trials
- Clinical Trials
- Situation Reports
- Training for Healthcare Workers
- Children and Ebola
- Multimedia Communication Resources
- Social Media
- Maps
- Health Resources for the Public
- Multi-Language Resources
- Disclaimer

Featured Sites

- Disaster Distress Helpline
  1-800-985-5990
- Substance Abuse and Mental Health Administration, U.S. Department of Health and Human Services

For updates on Ebola info sources, subscribe to DISASTR-OUTREACH-LIB.

Ebola-related documents and resources in the Disaster Lit database.

Embed this page's content on your own Web page. More about Content Syndication.

U.S. Federal Organizations

[Image of U.S. Federal Organizations websites]
International Organizations

Ebola response roadmap

The World Health Organization has released a roadmap to guide international response to the outbreak of Ebola virus disease in West Africa. The roadmap aims to stop ongoing Ebola transmission globally within 6 months while rapidly managing the consequences of any further international spread. It also recognizes the need to scale up, in parallel, the outbreak’s detection and containment response.

Ebola

Ebola virus disease is a severe, often deadly illness in humans.

Fact sheet: Le Ébola

MSF's West Africa Ebola response started in March 2014 and counts activities in Guinea, Liberia, and Sierra Leone. In response to a confirmed case in Mali, an MSF team arrived in the country this week to reinforce MSF’s regular mission and provide technical support to the Ministry of Health.

MSF currently employs 263 international and around 3,084 locally hired staff in the region. The organization operates six Ebola case management centers (CMCs), providing approximately 600 beds in isolation. Since the beginning of the outbreak, MSF has sent more than 700 international staff to the region and admitted more than 5,200 patients, among whom around 3,236 were confirmed as having Ebola. More than 1,200 patients have died of ebola and related causes.

Global Alert and Response (GAR)

Global Ebola Response

NIH U.S. National Library of Medicine
Situation Reports

Main highlights:
- For the 28th September 2014, a total of 181 new samples were received and analysed by the CDC Kenema Lab, the South African NICD MLU Lab-Western Area and the Chinese Lab-Jut: Kenema (13), Kambia (2), Koinadugu (1), Bombali (17), Tonkolili (19), Port Loko (62), Freetown (4), Bo (4) and Western Area (59). Ninety (90) of these samples are positive, 72 are negative while 19 suspected cases have been recommended for a second test based on the symptoms onset. (See table 1)
- Two (2) samples (1 positive & 1 negative) are not included in table 1 below because of missing district variable

The cumulative number of Laboratory confirmed cases are 2,090 whereas confirmed death is still 522 with a Case Fatality Rate (CFR) based on confirmed cases of 25.0%.

<table>
<thead>
<tr>
<th>Table 1: National Cumulative Summary of Ebola Cases 23 May-28 September 2014</th>
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<tbody>
<tr>
<td>Name of district</td>
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<td>Kailahun</td>
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<td>Tonkolili</td>
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Unsafe burial practices are a major cause of new #Ebola cases in Sierra Leone. This week's #EbolaBigIdea is SAFE BURIALS SAVE LIVES

Dr. Tom Frieden tweeted:
CDC @CDCgov - Nov 12
Unsafe burial practices are a major cause of new #Ebola cases in Sierra Leone. This week's #EbolaBigIdea is SAFE BURIALS SAVE LIVES

Dr. Tom Frieden @DrFriedenCDC - Nov 13
Sen. Frist on #Ebola: "...most effective way to protect the American people is to extinguish this fire at its source." fxn.ws/1xyoykB

Health care workers: Watch video w/ important tips on proper PPE use, caring for patients w/ #Ebola: bit.ly/11i0qXQ

UNMEER HQ in Accra on EbolaResponse efforts

Opening of Island clinic, new #Ebola treatment unit in #Monrovia, #Liberia, with 100 beds goo.gl/uzjFq9
“We are trying to probe very gently whether there was anyone else who may have been in contact with him when he became sick. This is so that the health promotion and surveillance teams can follow up with the contacts to ensure that if they are in quarantine that they have sufficient food, drinking water, mattresses and soap for infection control, and to address the concerns of the community and sensitize them about Ebola.”
Sierra Leone: staying at zero in an ex-Ebola hotspot

Close to the centre of Komendeh Luyama village in Sierra Leone's Kenema district is a mud-valled family home that looks much like the others - except the doors and windows. [...] 

Ebola in Liberia: from secret burials to safe burials

Secret burials were not in my vocabulary before I arrived in Liberia. When I think of burials I think of services with a lot of people. Powerful speeches about the [...] 

Witnessing rays of hope in West Africa’s Ebola fight

In late January, Deputy Executive Director for UNICEF, Geeta Rao Gupta, travelled to Sierra Leone, Liberia and Guinea to support communities, partners and UNICEF staff as they continue to battle [...]
**EDITOR'S CHOICE**
- Ebola in U.S.
- Hong Kong
- Great American freakout
- ISIS
- Aral Sea
- Volcano
- Secret Service
- Kansas City Royals

**DEVELOPING STORY**

Is it time to panic?

1st Ebola diagnosis in U.S.

A patient at a Dallas hospital is the first person diagnosed with Ebola in the U.S. Should we be concerned? **FULL STORY**

- Ebola Fast Facts | How to help
- How the Ebola virus spreads
- Why isn’t containment working?
- Bleach is best friend in this fight
- Photos | Now what?

**THE LATEST**
- More bodies found on volcano
- Protests in HK on China’s National Day
- Mom sobs over teenage jihadi son
- The great American freakout
- Will Turkey send troops against ISIS?
- U.S. has already spent $10 billion fighting ISIS
- Officials: Mayor shot, killed by wife
- 5 things to start your day
- Pipe bombs found in Pa. manhunt
- School-shooting suspect caught
- 4 more kids with mystery illness
- Death penalty in beheading case?
- Source: DNA links cases of Va. women
- Dad did double-take at suspect’s pic
- Suspect in Realtor’s killing: ‘Sorry’
- Royals win Al. Wild Card in classic
- Bill Maher slammed for comments
- Morgan: Walmart blames me?

**SECRET SERVICE SECURITY LAPSES**

Armed man shared elevator with Obama

Testimony given by the director of the embattled U.S. Secret Service appears to conflict with the news that a private security contractor with a gun shared an elevator with President Obama, in violation of protocol. **FULL STORY**

- Director: WH intrusion ‘unacceptable’
- Secret Service: We’re outraged
- When to use deadly force?
- More: Director: WH intrusion ‘unacceptable’
- Secret Service: We’re outraged
- When to use deadly force?

**READ THIS, WATCH THAT**
- Once-vast sea dries up to almost nothing
- This movie costs more than going to Mars
- The dark arts of golf’s glamour girl
- Morgan: Walmart blames me?
- Morgan: Walmart blames me?
- Morgan: Walmart blames me?
What if they had taken him right away?'

Thomas Eric Duncan's family left devastated

Many are wondering why the first Ebola patient diagnosed in America died. The family of medication used in the U.S. survived. Full story.

News story: Ebola patient's last words: 'I see death.'

6 positive Ebola cases in Texas

5 U.S. airports to screen for Ebola

Officials: Worker caring for Thomas Eric Duncan

The health care worker reported a fever Tuesday and was immediately isolated, a hospital spokesman said. Full story.

Nurse: 'Fever went down.'

Texas doc: Fever went down.

Get up to speed: WHO's outlook


Nina Pham to be treated at NIH

Pham, the first case in U.S., will be transferred to a National Institutes of Health facility, according to two sources. Full story.

CDC director: 'Ebola's over'

Spanish nurse is improving,

Libere: Overwhelmed: Fear spreads

Microbiologist: Ebola's faster than us

Will be 'massive undertaking':

The current Ebola outbreak is 'much faster' than the international response to it, the discoverer of the virus said. Full story.


America's most famous neighborhood

The first Ebola case in the U.S. is under quarantine at the University of Texas at Dallas.

Guinea to Bellevue:

Tracking the doc with Ebola

Jogging, bowling, riding subway

Craig Spencer was in contact with four people after he began exhibiting symptoms, authorities said, which is when he was contagious. Full story.

NYC doctor has Ebola: Who is he?

WHO: Latest updates on Ebola crisis

Paul Allen offers $100M against Ebola

Country won't screen flyers from U.S.

Ebola's memory tests: J.S. Burma

Country reports first Ebola case
"I've Never Had a Job Like This": Life Inside an Ebola Treatment Unit

SUAKOK, Liberia—"It becomes day-to-day life. You get into your PPE [personal protective equipment] and you go in every day and you feel safe," explains Audrey Rangel—a nurse at the Bong County Ebola treatment unit run by International Medical Corps with support and funding from USAID.

Before landing at Roberts International Airport in Monrovia on September 8, Audrey worked on a maternal, child health and nutrition program in Tonlebile, "I always wanted to do disaster relief work. The crisis started to take off. It was in the news a lot. People were talking about it. So I went online. I saw a position for an Ebola response nurse. To me it was just the right time. The description just kind of fit me. I was speaking

Dr. Pardis Sabeti on Decoding the Ebola Genome

Harvard geneticist Dr. Pardis Sabeti spoke with us about her groundbreaking work sequencing the Ebola genome and what it means for an approach to tackling the outbreak.

The Historical Roots of the Ebola Scare in the United States

by Sheldon M. Stern

Stelton M. Stern is the author of numerous articles and Averting the Final Failure: John F. Kennedy and the Secret Cuban Missile Crisis Meetings (2009), The Week the World Stood Still: Inside the Secret Cuban Missile Crisis (2005), and The Cuban Missile Crisis in American Memory: Myths vs. Reality (2012), in the Stanford University Press Nuclear Age Series. He received his Ph.D. from Harvard in 1970 and was historian at the JFK Library in Boston from 1977 to 2000.
Size of the collection

As of April 21, 2015:

- 254 starting point URLs
- 3,247,247 URLs
- 182 GB archived
- Global Health Events collection is available at [https://archive-it.org/collections/4887](https://archive-it.org/collections/4887)
Three recovered Ebola patients get a ride back home after successfully completing their treatment. One patient holds her certificate of discharge that says she is free from Ebola and does not constitute a threat to the community.
“Six of seven blood samples from suspect cases tested at Institut Pasteur in Lyon, France were positive for Ebola virus by PCR, confirming the first Ebola haemorrhagic fever outbreak in Guinea.”

“It was the unanimous view of the Committee that the conditions for a Public Health Emergency of International Concern (PHEIC) have been met.”
“the FDA has seen and received consumer complaints about a variety of products claiming to either prevent the Ebola virus or treat the infection.”
Future research

- Maintain record of scholarship and varied perspectives in the historical record
- Preserve at-risk artifacts of cultural and technological change
- Diversity of materials
- Historians will be able to research digital collections in revealing and novel ways
Crossing the border, Ebola enters Sierra Leone
02 April 2015 - Following confirmation of Ebola cases in Guinea, Dr Koloma went to Sierra Leone to help assess emergency response capacity. During his trip, the first signs of Ebola crossing the border were detected. Originally from DRC, Dr. Nensga quickly realized that the five cases in Kailahun could quickly become a serious health emergency.

Current Situation
Cases in the most affected countries

http://apps.who.int/ebola/ (April 22, 2015)
NDSA 2015 National Agenda for Digital Preservation

- A gap is starting to emerge between the types of materials that are being created and used in our society and the types of materials that make their way into libraries and archives.

- The stewardship community must recognize this gap, understand why it exists, and determine how it could be addressed at local, regional, and national levels.
Learn more:

- NLM Global Health Events web archive collection
  https://archive-it.org/collections/4887
- HMD Pinterest collection on Ebola web collecting
- NDSA 2015 National Agenda for Digital Stewardship

Questions? moffattc@mail.nih.gov