



Joint Program Executive Office for Chemical and Biological Defense

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Biosurveillance Portal

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JPEO-CBD

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JPEO-CBD Mission and Vision

Mission:

Provide Research, Development, Acquisition Fielding and Life Cycle Support of Chemical, Biological, Radiological and Nuclear Defense Equipment, Medical Countermeasures and Installation and Force Protection Integrated Capabilities Supporting the National Strategies.

Vision:

An Agile, Results-Oriented, and Transformational Acquisition Enterprise Delivering Net-Centric, Modular, Tailorable and Multi-Purpose Capabilities to the Nation.



JPEO-CBD Areas of Responsibility



Areas of Responsibility

Vaccines



Treatments



Diagnostics



Information Systems



Installation/Force Protection



WMDs Civil Support



Rad/Nuc Defense



WMD Elimination

Chemical, Biological & Radiological Agent Detection



Individual & Collective Protection



Biosurveillance

Decontamination

Total Life Cycle Management



Biosurveillance Defined

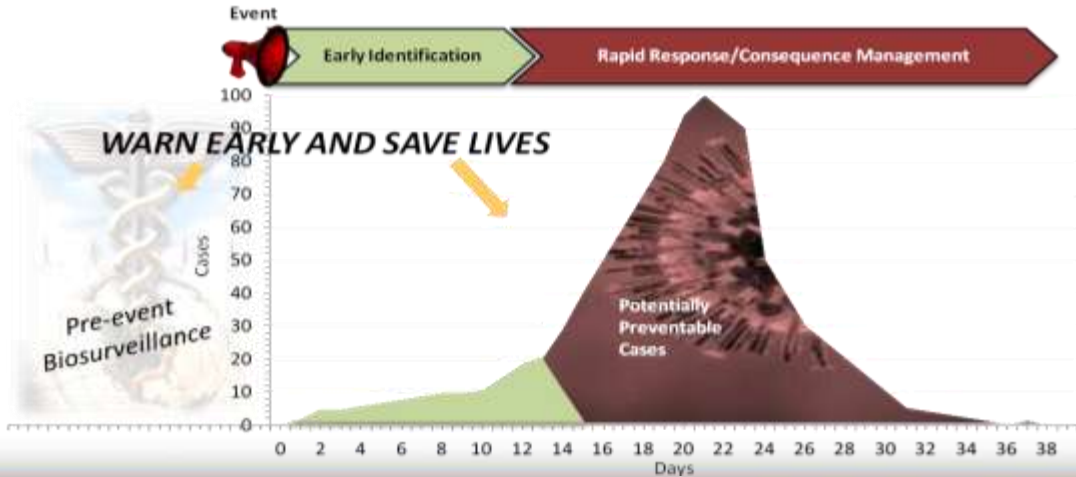
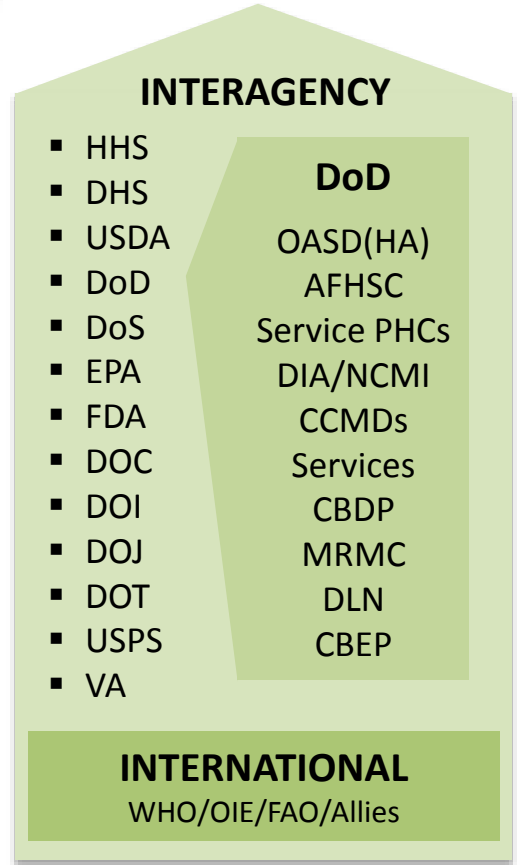
Biosurveillance Definition

“The Strategy defines biosurveillance as the process of gathering, integrating, interpreting, and communicating essential information related to all-hazards threats or disease activity affecting human, animal, or plant health to achieve early detection and warning, contribute to overall situational awareness of the health aspects of an incident, and to enable better decision-making at all levels...” (The National Strategy for Biosurveillance)

Requires
Whole of Government

Effective Biosurveillance Enables Rapid Response

- Early detection and warning of health threats
- Situational awareness
- Better decision-making





Biosurveillance Problem

We face an active and evolving threat and we lack a single source biosurveillance tool that enables situational awareness, preparation, and crisis response





Challenge: Information Availability

- **Currently, information sources are separately housed, not easily accessible, and of varying reliability**
 - Information from Federal, State, local, and tribal governments, the private sector, non-governmental organizations, international partners is not readily shared
- **Access to authoritative information sources is necessary to enable sharing, visualization, and analysis for improved decisionmaking**

BIOSURVEILLANCE INFORMATION





The Need: US/Republic of Korea

“USFK and Operating Forces lack the capability to conduct ***persistent comprehensive biological surveillance***; rapid ***emerging threat analysis*** And tracking; ***forensic analysis***; and ***rapid, high confidence identification*** of collected biological samples and diagnostic determination of clinical specimens across all echelons of care (far-forward, deployed lab, and fixed facility) to ***support early detection, warning, and situational awareness of biological threats*** in the Republic of Korea.”



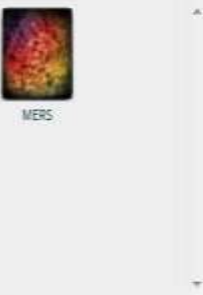
– *Joint Emergent Operational Needs Statement (JEONS) – U.S. Forces Korea Biosurveillance/Diagnostics Capability Set, dated 15 May 2012*



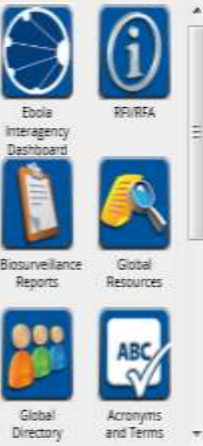
BSP Response- MERS Dashboard



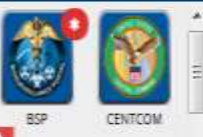
EVENTS



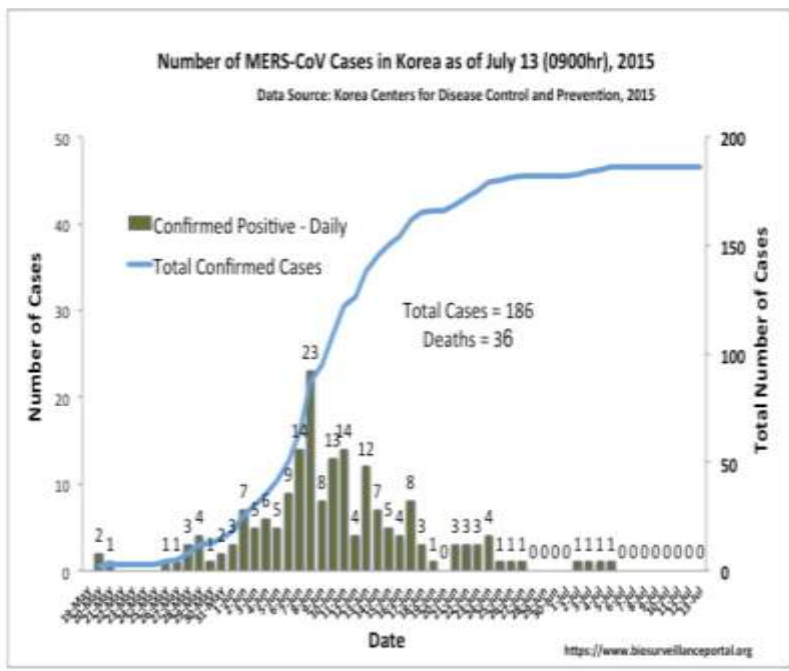
APPS



GROUPS



MERS-CoV Group



- [What is MERS-CoV?](#)
- [MERS-CoV Resources](#)
- [MERS-CoV MOHW Press Releases](#)

New Documents and Information

- Document
- DTRA Technical Document for Middle East Respiratory Syndrome (MERS)_20150714
7/14/15

RSS

MERS Outbreak News

7/28/15 5:24 PM

Pipes Output

Yonhap News Summary

7/28/15 8:35 AM

The following is the second summary of major stories moved by Yonhap News Agency on Tuesday. ——— (3rd LD) S. Korea declares de facto end to MERS outbreak SEOUL/SEJONG – Prime Minister Hwang Kyo-ahn Tuesday declared a de facto

[\(3rd LD\) S. Korea declares de facto end to MERS outbreak](#)

[News Scan for Jul 27, 2015](#)

[News Scan for Jul 24, 2015](#)

[News Scan for Jul 23, 2015](#)

JOHN MARKHAM

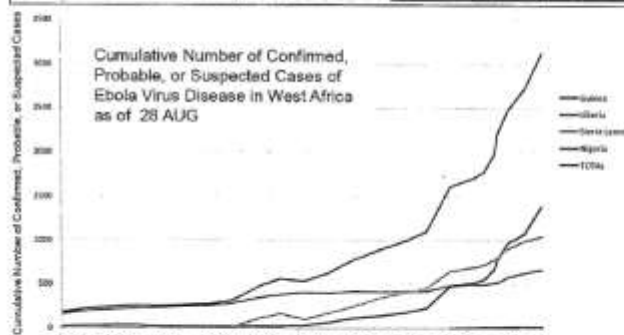
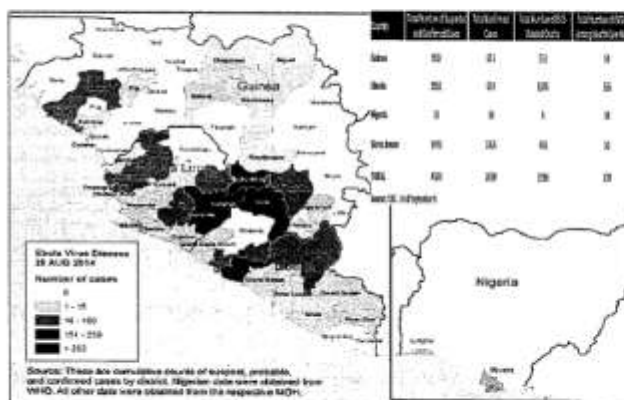
- My Home
- My Map
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- My Websites
- MERS GROUP**
- Dashboard
- MERS Information
- Document Library
- Alerts
- Announcements
- Video
- RSS Feeds
- Directory
- Calendar
- Reports



The Need: AFRICA

UNCLASSIFIED

EBOLA Update 17 SEP 14



Situation Update:

- As of 12 Sep, DOS has not submitted EXECSEC requesting sustained airlift to/from West Africa.
- Three DOD Dart Planners arrived in Liberia.
- DART-DOD MITAM Requests: 1) 25 Bed hospital; 1a/b) ADVON Tm with med planner; 2) three person planner augmentation; 3) purchase/delivery 1,200 cots for ETUs; 4) two mobile labs; 5) additional 1,000 cots.

Way Ahead:

- Define internal process MITAM requests.
- Release order for planners; JOPES entry and MiiAir planning for deployment.
- Developing Level 2 CONOP for hospital; awaiting planning level details on level of support, type of equipment, etc. based on EXECSEC memo.

Country	Cases/Deaths	Confirmed	Probable	Suspect	New(1)	Total Cases	Percent Change
Guinea	Cases	579	150	42	87	771	11.3%
	Deaths	343	149	2	64	494	13.0%
Liberia	Cases	403	815	480	320	1698	18.8%
	Deaths	271	373	227	177	871	20.3%
Nigeria	Cases	16	1	0	4	21	19.0%
	Deaths	6	1	0	1	7	14.3%
Sierra Leone	Cases	1107	37	72	190	1261	15.6%
	Deaths	430	34	12	54	476	11.3%
Totals	Cases	1752	853	464	637	3706	17.2%
	Deaths	897	477	178	296	1848	16.0%

(1) New cases were reported as of: 31 Aug 14 (Previous report 28 Aug 14)
 (2) Percentage change from last report on: 31 Aug 14
 Source: WHO Eola Update West Africa 5 Sep 14



BSP Response-Ebola Portal

Ebola Portal 5 Welcome, Denise Graves RCT SUNet [Contact Us](#)

EVENTS

APPS

- Solo Dashboard
- APAN
- Ebola Reports
- BVRFA
- BSE
- Global Directory

GROUPS

Alerts 5

- [Mali Confirms its First Case of Ebola](#)
Created Fri, 24 Oct 2014 12:38:19 GMT
by Katy Brodwater for Ebola
- [UK worker dies of Ebola in German hospital](#)
Created Tue, 14 Oct 2014 16:31:27 GMT
by Katy Brodwater for Ebola
- [Dallas Ebola patient Thomas Eric Duncan has died, hospital says](#)

Ebola Facts and Historical Perspective

Latest Breaking Updates

1 2 3 4

North Korea to Bar Foreign Tourists Over Ebola Fears - Source: *NYT*

Ebola Interagency Dashboard

Regional Ebola Case Count

Total Count	9722	4762	49%
Total Cases	Total Deaths	Mortality Rate	

Liberia

4657	2694	58%
Total Cases	Total Deaths	Mortality Rate

Involved: OSD Red Cross CDC WHO DHS NCM

DHS AFRICOM OTRA-SOC USAD JPEO-CRF

USAMRIID USCIS

Source: MOH Liberia SITREP As of: 10/18/2014

Sierra Leone

3624	1246	34%
Total Cases	Total Deaths	Mortality Rate

Involved: OSD Red Cross CDC WHO DHS NCM

OTRA-SOC USAD JPEO-CRF USAMRIID USCIS

Source: MOH Sierra Leone SITREP As of: 10/18/2014

Guinea

1416	813	57%
Total Cases	Total Deaths	Mortality Rate

Involved: OSD Red Cross CDC WHO DHS NCM

OTRA-SOC USAD USAMRIID USCIS

Source: MOH GUINEA SITREP As of: 10/09/2010

Additional Regions >

Ebola Outbreak Executive Summary

EVD transmission remains persistent and widespread in Guinea, Liberia, and Sierra Leone. All but one administrative district in Liberia and all administrative districts in Sierra Leone have now reported at least one confirmed or probable case of EVD since the outbreak began. Cases of EVD transmission remain lowest in Guinea, but case numbers are still very high in absolute terms. Transmission remains intense in the capital cities of the three most affected countries. Case numbers continue to be under-reported, especially from the Liberian capital Monrovia. Of the countries with localized transmission, both Spain and the United States continue to monitor potential contacts. On 21 October the single patient with EVD in Spain tested negative for the disease for a second time. Spain will be declared free of EVD 42 days after the date of the second negative test unless a new case arises during that period.

Source: WHO As of: 10/22/2014 Execution Updated: 10/24/2014

Ebola Outbreak Distribution and Significant Points Map

DENISE GRAVES

- My Home
- My Map
- My Library
- My Websites

NOTIFICATIONS

- Alerts 3
- Announcements 5

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.

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End State

Environmental Response / Health Safety Public Health & Medical Services
Information Sharing
Situational Assessment

Cyber Security

- Pre-deployment security scans
- Authority to Operate
- Transition to new DoD accreditation requirements

Architecture/Infrastructure

- Data and service-level models
- Architecture and engineering of underlying software and hardware

Customer Engagements

- Exercise Support
- User Feedback Events
- Requirements acquisition/validation

Supporting Processes

Medical Surge

Public and Private Services & Resources

Mass Care

Emergency Public Information and Warning

Emergency Operations Coordination

Operational Communications



Common Operating Picture

- Dashboard
- Organization/Group/User focus
- Near real time data
- User customizable

Collaboration

- Chat
- Directories
- Request for Information
- Alerts/Announcements

Analysis Tools

- Epidemiological Analysis
- Medical/Electronic Health Record
- Social Media Analysis
- Health Risk Management

Brokered Data

- Trusted, established data sources
- Data Ingestion
- Memorandum of Understanding/Memorandum of Agreement
- Data Use Agreements

Modeling & Simulation

- CBRN Plume Modeling
- Predictive Models
- Event/Disease Forecasts
- Impact Projection Models

Data Access & Security

- Public Key Infrastructure (PKI) - based user authentication
- Group-level access controls
- Credential Based Content



BSP In Action

ABLE RESPONSE 2011-2015, KOREA



ROK/U.S. whole of government, multi-lateral biosurveillance exercise across 3 continents

EAGLE RESOLVE 2015, KUWAIT



Chairmen of Joint Chiefs of Staff multi-lateral exercise with Gulf Cooperation Council

EAGER LION 2015, JORDAN (Observation only)



Jordanian hosted multi-lateral exercise spanning 22 nations and 12000 troops

JUPITR 2015, KOREA



Joint USFK Portal and Integration Threat Recognition Demonstration

HIBRID 2016-2017, UNITED STATES



Homeland Integration Biosurveillance Response Information Demonstration

Homeland Defense and Homeland Security sponsored, whole of government exercise



Questions?





Contact



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