2015 APHL™ ANNUAL MEETING
and ninth government environmental laboratory conference

Performance Driven — Racing to Results
The Role of Laboratories in Containing Ebola in West Africa

FIELD Experience
Cumulative
Confirmed Cases since April 2014
GOAL: to attain the shortest possible turn around time for testing and reporting of results for efficient actions:

- SEGREGATE
- TREATMENT
- MONITOR
PRE-ANALYTICAL
• SPECIMEN MANAGEMENT
• COLLECTION
• PACKAGING
• TRANSPORT

ANALYTICAL
• # TESTING LABS
• QA

POST ANALYTICAL
• RESULT DISSEMINATION

DIRECTION OF HOLDING and Treatment unit CASE MANAGEMENT SURVEILLANCE/trend
LABORATORY RESPONSE CYCLE

- CONTACT TRACING NOTIFICATION (facility/family/DPC)
- Specimen COLLECTION
- Specimen Transportation and DISTRIBUTION
- Specimen reception and validation
- COMMUNICATIONS OF RESULT
- TEST
- QA- QA/PT
Establishment of a Central Coordinating Core Organ-
National Laboratory Technical Working Group

- Human Resource
  - Training
  - Restructuring

- Inventory Management
  - SCMS
  - Chain of Custody

- Specimen Management
  - Collection
  - Transportation

- Quality Assurance
  - Quality Control
  - Audit
Process Flow

COORDINATION – Country Ownership

Specimen management
Specimen transport
Testing
Result for action
TAT Collection to Receipt

% Turnaround Time

Week


24 Hrs
2 Days
Over 2 days
Usable
Average daily utilisation for w.c 16 Feb

No. of Samples

Lab Name

Surge
Capacity
Utilisation
Results communication for action and trend monitoring

**HOLDING and TREATMENT FACILITIES**
- Reduce patient time in holding centre (release beds)
- Improve case management (treatment)

**RESULT for ACTION**
TAT = 24 Hr

**Community and Family**
- *SWABS*
- Improve dead body management

**GOVERNMENT EPI UNIT**
- Monitor epidemic trends
CHALLENGES

UNPREPARED

UNILATERAL ACTIONS

- Policy
- ACCESS
- Parallel EFFORTS
- SUSTAINABLE ACTIONS
Laboratory Partner Collaboration:
Foster LABORATORY NETWORK -
Leveraging support for effective and efficient delivery –
TRANSITION PLAN
INTEGRATION INTO HEALTH SECTOR PLAN for
SUSTAINABLE OUTBREAK RESPONSE
Critical Transition Outline

1. Geographic coverage- REACH-ACCESS
2. Transition of infrastructure – (minimum standards)
   a. Technology suitability
   b. Sustainability
3. Transition- Human Resource Capacity Building
4. Quality Assurance
Core Systems and structures set at minimum standards for Laboratory Services

- Energy
- HR
- Water
- Infrastructure

health and safety
Health Facility CHC/MCHC

Patient seen with suspected notifiable disease

Transport by DSO and NPHRLs

District Surveillance Team
(DSO and Lab)

District Surveillance Officer
Notified via phone

District Laboratories and National Public Health laboratory Systems

Transport by DSO and NPHRLs

National Surveillance Office

Case forms

NETWORK OF Public Health Reference Laboratory System

NPHRLs WEST

NPHRLs EAST

NPHRLs NORTH

NPHRLs SOUTH

LAB/EPI LAB-BASED SURVEILLANCE INTEGRATION

PARTNER SUPPORT QA
NATIONAL RECOVERY PLAN

Human Resource – Rapid laboratory response team
Quality Laboratory Service should be the first critical pillar to be established in Ebola outbreak as it is pivotal in directing the outbreak containment and prevention program.
DEDICATED TO SURVIVORS

HANDS OF TIMES AUGUST 2014

HANDS OF TIME DECEMBER 2014
THANK YOU