

# Testing Algorithm for Florida Laboratories Using BioFire Diagnostics Ebola Assay

# Florida Health.gov • Florida Department of Health

### Introduction

The 2014 Ebola Zaire epidemic is the largest the world has ever seen and has crossed US borders causing widespread concern and declaration of a Public Health Emergency. The laboratory community has been actively engaged in responding to testing and biosafety concerns. Until last week, the assays that have received Emergency Use Authorization (EUA) from the US Food and Drug Administration (FDA) were available only at select state or local public health Laboratory Response Network (LRN) Reference Laboratories and the Centers for Disease Control and Prevention (CDC). On October 25 2014 the BioFire Diagnostics FilmArray Biothreat-E Panel with an Ebola virus test was given an FDA Emergency Use Authorization (EUA).

Clinical laboratories that are considering implementation of this assay must remember the importance of connecting with Public Health authorities whenever Ebola Virus Disease is suspected and consider the risk/benefit of implementing this assay in their laboratory. Clinical laboratories must consult with state or local Public Health partners both prior to testing and after testing to report results (both negative and positive) and determine next steps.

Please refer to the APHL Guidance for Clinical Laboratories Using FDA Authorized Diagnostic Assays for Ebola Virus Detection for important considerations regarding implementation of Ebola testing in your laboratory

### **Additional Resources**

### APHL

 <u>Guidance</u> for Clinical Laboratories Using FDA Authorized Diagnostic Assays for Ebola Virus Detection

## **BioFire Testing**

 <u>Guidance</u> for Clinical Laboratories Using FDA Authorized Diagnostic Assays for Ebola Virus Detection

### **Patient Evaluation**

 Decision Algorithm to Assist with Identifying Testing and Monitoring of Patients with Suspected Ebola Virus Disease (EVD)

http://www.floridahealth.gov/diseases-and-conditions/ebola/index.html

## Packaging and Shipping

- Interim Guidance for Specimen Collection, Transport, Testing and Submission
- <a href="http://www.floridahealth.gov/diseases-and-conditions/ebola/index.html">http://www.floridahealth.gov/diseases-and-conditions/ebola/index.html</a>
   <a href="http://www.cdc.gov/vhf/ebola/pdf/ebola-lab-quidance.pdf">http://www.cdc.gov/vhf/ebola/pdf/ebola-lab-quidance.pdf</a>
- Packaging and Shipping eLearning Course <a href="http://www.cdc.gov/labtraining/course\_listing/packing\_shipping.html">http://www.cdc.gov/labtraining/course\_listing/packing\_shipping.html</a>

# Personal Protective Equipment (PPE)

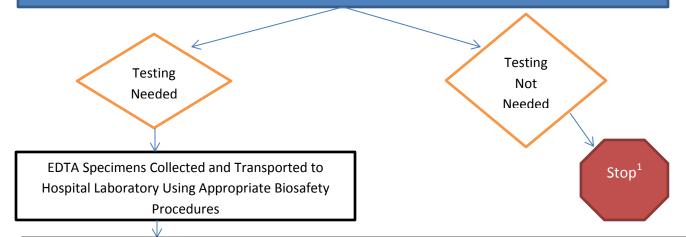
Guidance on PPE

http://www.floridahealth.gov/diseases-and-conditions/ebola/index.html http://www.cdc.gov/vhf/ebola/hcp/procedures-for-ppe.html

Hospital Identifies Patient as Ebola Suspect Using CDC Guidance for Evaluating a Patient Under Investigation

Hospital Notifies County Health Department or DOH Bureau of Epidemiology at 850-245-4401 to authorize testing

(See Decision Algorithm to Assist with Identifying Testing and Monitoring of Patients with Suspected Ebola Virus Disease (EVD) )

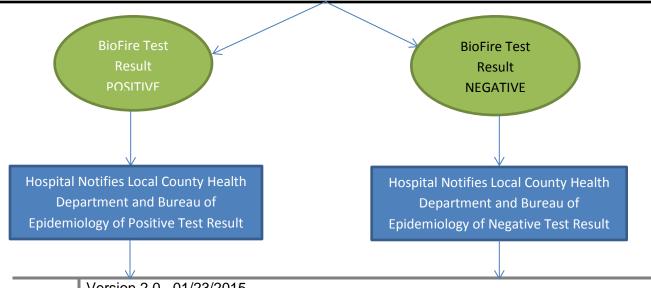


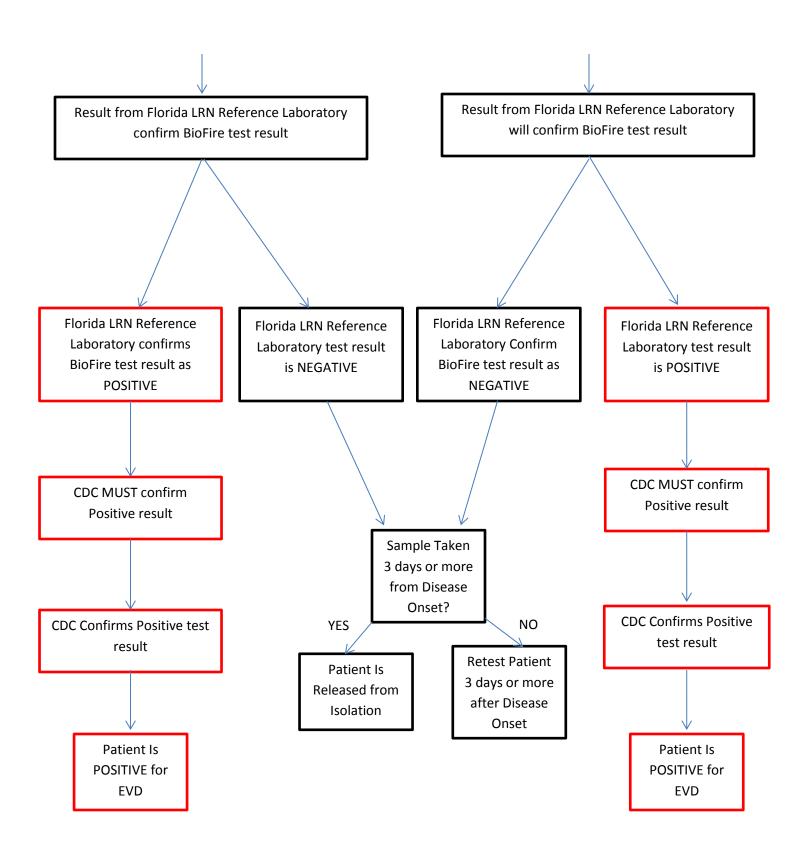
Hospital Tests Patient Specimen Using Biofire Biothreat- E Panel following all appropriate biosafety procedures as identified during Laboratory Risk Assessment.

Hospitals Package and Ship **TWO** Additional Specimens to the designated Florida LRN Reference Laboratory BPHL-Jacksonville, BPHL-Miami, BPHL-Tampa and/or CDC as Advised for Additional Testing.

### **Follow Appropriate Packaging and Shipping Guidance**

(Ebola Virus Diagnostic Specimen Collection, Packaging and Shipping Guidance for Laboratories and County Health Departments, ver 3.0)





# <sup>1</sup>Information on Testing When Public Health Officials Determine It Is Not Indicated

Testing performed on individuals who do not meet the intended use criteria as defined in FDA labeling or without consultation with public health is not advisable and carries inherent risk.

- Testing outside the approved parameters of the EUA is considered to be a test
  modification and the laboratory performing the testing is responsible for
  establishing and assuring the safety and efficacy of the test in the patient
  population being tested (e.g. asymptomatic individuals).
- A positive result in a patient who is at low risk for EVD may be a false positive and can cause undue public health concern.
- Patients without symptoms but with risk factors for EVD who are tested outside
  the recommended parameters of the assay may be overly assured by a negative
  result and not comply with federal or state <u>Movement and Monitoring</u>
  requirements or seek medical care if symptoms develop.
- Individuals with a travel history to West Africa may be at risk for other infectious diseases including malaria and other viral hemorrhagic diseases (Lassa Fever, Marburg). All risk factors must be assessed and testing for other conditions should be considered.