## Caribbean Public Health Agency

# CARPHA

### Importance of Data Quality for Laboratory Services

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#### **Uses of Laboratory Data**

- Case management
- Surveillance and Response to pathogens in circulation; emerging and re-emerging
- Development of public health policies
- Rationalization of budgetary allocations
- Research





#### **Importance of Quality Systems**

Quality of laboratory processes has a direct impact on the quality of surveillance data generated







#### **CARPHA Laboratory Request Form**



Date of Collection of Sample (DOC)



#### **Review of Regional Data Jan-Jun 2014**



Caribbean Public Health Agency CARPHA

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#### Key parameters used by the Laboratory

 Both the <u>DOO</u> and <u>DOC</u> are required to determine the appropriate laboratory test e.g. molecular vs serological methods





#### **Example: Chikungunya Virus January-June 2014**



Preventing disease, promoting and protecting health

CARPHA



#### Consequences

- Poor laboratory surveillance of pathogens of public health importance
- Under-reporting or non- reporting of pathogen/s in circulation e.g. EPI
- Further delays in response to emerging situations
- Impact on case management
- Loss of confidence in the system



#### Recommendations

- Review current system of referral (local, Regional)
- Feedback to primary care professionals essential
- Sensitization of physicians, nurses/phlebotomists, laboratory staff
- Strengthen collaboration between Epidemiology and Laboratory teams to ensure appropriate data is available for all submissions



