EAC MOBILE LAB. PROJECT

Vision: Improve Diagnosis of Disease Outbreak Response in East African Partner States

PRIORITY VIRAL INFECTIOUS DISEASES – PHASE I

Ebola Viral Hemorrhagic Disease, Marburg virus, Coronavirus, Crimean-Congo Hemorrhagic Fever, Chikungunya, Dengue Fever, Rift Valley Fever, Zika, West Nile Virus (WNV1/WNV2), MERS, Lassa Fever and Yellow Fever

IMPLEMENTING PARTNERS: PHASES I & II

• Regional Coordination
  East African Community (EAC) Secretariat, Arusha, Tanzania

• Technical Consultants
  Bernhard Nocht Institute for Tropical Medicine (BNITM) (Laboratory)

• Procurement Consultant
  GOPA – Infra GmbH

PROJECT INTERVENTIONS – PHASE I

• 9 EAC mobile labs handed to Partner States

• Over 70 lab staff trained regionally to operate these labs

• 119 staff trained in the safe shipment of infectious agents through IATA

• EAC Mobile labs respond to outbreaks in the region (Ebola, Kisoro Uganda, 2019 and Dengue, Tanzania 2019)

• EAC Mobile labs respond to the COVID19 pandemic in East Africa, with over 280,728 SARS-CoV-19 RT-PCR tests conducted in the mobile labs with average TOT 8 hours

• EAC mobile labs support the assurance of regional trade through the testing of truck drivers for COVID19 at border points

FUNDING PHASE I:
10 million Euro Grant Plus
2 million Euro Suplemental Funds
Federal Republic of Germany through the German Development Bank (KfW); 2017 - 2021

THE NETWORK OF NATIONAL PUBLIC HEALTH LABORATORIES

Burundi: Institut National de Santé Publique (INSP)
Kenya: National Public Health Laboratory Services
Rwanda: National Reference Laboratory (NRL)
South Sudan: Public Health Laboratory and National Blood Transfusion Centre
Tanzania: National Health Laboratory Quality Assurance and Training Centre (NHLQATC)
Uganda: Central Public Health Laboratories (CPHL)

East African Community Regional Network of Public Health Reference Laboratories for Communicable Diseases
Contacts: EAC Secretariat: eac@eachq.org and EAC Health Department: health@eachq.org
EAC MOBILE LAB. PROJECT

FUNDING PHASE II
13 million Euro grant
Federal Republic of Germany through the German Development Bank (KfW); 2021 - 2024

KEY OBJECTIVES-PHASE II

• Establish and operationalise the “EAC Regional Network of Anti-Microbial Resistance (AMR) Surveillance and Response Network”

• Establish linkages and integration with the existing “East African Integrated Disease Surveillance Network (EAIDSNet)” and WHO Global Antimicrobial Surveillance System (GLASS)

PROJECT INTERVENTIONS -PHASE II

• Procurement of 6 Mobile Container Labs (one per EAC Partner State)
• Establish whole genome sequencing technology for identification of AMR and emerging pathogens
• Train over 70 lab personnel in the use of these mobile container labs
• Capacity building through field missions for AMR and disease surveillance
• Electronic data capture throughout the EAC mobile lab network through a Laboratory Information Management System (LIMS)
• Capacity building of regional biomedical engineers
• Harmonized regional AMR policies and SOPs

CONCEPT OF CONTAINER MOBILE LAB FOR ANTIMICROBIAL RESISTANCE (AMR) –PHASE II

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Priority Pathogens</th>
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<tbody>
<tr>
<td>Blood</td>
<td>E. coli</td>
</tr>
<tr>
<td></td>
<td>K. pneumoniae</td>
</tr>
<tr>
<td></td>
<td>A. boumanni</td>
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<tr>
<td></td>
<td>S. aureus</td>
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<tr>
<td></td>
<td>S. pneumoniae</td>
</tr>
<tr>
<td></td>
<td>Salmonella spp.</td>
</tr>
<tr>
<td>Urine</td>
<td>E. coli</td>
</tr>
<tr>
<td></td>
<td>K. pneumoniae</td>
</tr>
<tr>
<td>Feaces</td>
<td>Salmonella spp.</td>
</tr>
<tr>
<td></td>
<td>Shiggella spp.</td>
</tr>
<tr>
<td>Urethral and cervical swabs</td>
<td>N. gonorrhoeae</td>
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</tbody>
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