Engaging Young Scientists from the Global South in Biosecurity Diplomacy

Proscovia Naluyima Sekiziyivu, PhD
Laboratory Director

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Mission: To mitigate disease threats through quality research, health care and disease surveillance.
Vision: To be a leading biomedical research Organization for better health.
Emerging and Re-emerging infections worldwide

Source: Morens et al., 2004.
Emerging and Re-emerging infections worldwide

Uganda: Ebola, Marburg, CCHF, RVF, Plague, Anthrax

Source: Morens et al., 2004
Current Ebola Outbreak in the Democratic Republic of Congo
MUWRP operational sites

- Kabarole
  - JMEDICC offices
  - Fort Portal Regional referral hospital

- Luwero
  - EIDP Site
  - Bombo military hospital

- Kampala
  - ADEPT site
  - Head Office, research Lab & COVAB influenza Lab (Animal)

- Gulu
  - EIDP site

- Kasese
  - EIDP Site
  - Bwera hospital

- Wakiso
  - UVRI Influenza lab (Human)

- Jinja
  - EIDP site
Key stakeholders

- Ministry of Health Public Health Emergency Operating Center (EOC)
- Ministry of Health National Task Force (NTF) for epidemics
- Uganda Virus Research Institute (UVRI)
- National Drug Authority
- Makerere University
- Regional Referral Hospitals
- District Health Teams
- Uganda Peoples Defence Forces
- Centers for Disease Control and Prevention (CDC)
- World Health Organization (WHO)
Joint Mobile Emerging Disease Intervention Clinical Capability (JMEDICC)

- JMEDICC is constituted by US Department of Defence partners; Joint Program Executive Office (JPEO). US Naval Medical Research Center (NMRC). US Army Medical Research Institute of Infectious Diseases (USAMRIID). The Henry Jackson Foundation (HJF)
- Locally working with partners- MUWRP and IDI.
- Establishing capability to rapidly execute clinical research of experimental therapeutics or vaccines for high-consequence pathogens (specifically Filo viruses) in an outbreak setting.

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JMEDICC Objectives

- Support a Public Health Institution in laboratory testing through a BSL-II enhanced lab
  - Good Clinical Laboratory Practices
  - Equipment maintenance and reagent supply

- Train staff in clinical research, infection control and capability to provide medical care in an outbreak setting
  - Mobile equipment (BSL-II plus: clinical chemistry, hematology, coagulation)
  - Rapid diagnostics (Genexpert, Biofire)
  - Human subject protection
  - Good documentation

- Integrate with outbreak response agencies
- Support community outreach and engagement
Emerging Infectious Disease Program (EIDP)

- EIDP is supported by US Department of Defense Armed Forces Health Surveillance Branch-Global Emerging Infection Surveillance

- Support human and animal surveillance of influenza and influenza-like illnesses

- Established 2 BSL-II plus laboratories to support parallel analysis of human and animal samples

- Established a microbiology laboratory to support antimicrobial resistance surveillance

- Surveillance for acute febrile illnesses in humans is supported by Defense Threat Reduction Agency
Addressing Emerging and re-emerging infections through international Partnerships and multidisciplinary research Training (ADEPT)

- Assess existing EID/REID research training capacity at collaborating institutions and identify priority training gaps and resources needed to undertake the proposed ADEPT training program

- Develop a robust plan for implementing a multidisciplinary EID/REID research training program (ADEPT) and define the roles, collaborative operating procedures, and evaluation metrics.

- Define criteria for trainee selection and preliminary pool of the best potential trainees, outline participant curriculum and training requirements, mentorship teams and strategies
THANK YOU

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