

Workshop: “One Health research tools for preparedness and response to zoonotic disease outbreaks”

Date: Thursday 31st March & Friday 1st April 2022

Time: 13:00-16:00 GMT | 14:00-15:00 WAT | 16:00-19:00 EAT

Languages: English and French.

Register here:

https://zoom.us/webinar/register/5716470038460/WN_VYXtWAbGRSC3hHDEg8AU1Q

Background

Outbreaks that occur at the animal, human and environment interface pose a significant threat to public health, social security, and the economy. The World Organization for Animal Health (OIE) reported that 60% of the existing human infections are zoonotic and 75% of human emerging diseases are of animal origin. In addition, 3 out of 5 new human diseases detected annually are of animal origin, most of these outbreaks are triggered by favorable environments. In order to guide the prevention, control and elimination of priority zoonotic disease, the Africa CDC developed a [One Health Framework](#) with the following goals:

1. Strengthen multisectoral, One Health coordination and collaboration;
2. Develop and strengthen surveillance system and data-sharing mechanisms with relevant stakeholders;
3. Strengthen laboratory systems and networks to ensure early detection, surveillance and response;
4. Ensure effective and coordinated public health emergency preparedness and response using a One Health approach;
5. Strengthen and support workforce development to prevent and control priority zoonotic diseases.

Following Africa CDC’s One Health Framework goals, this workshop will target outbreak rapid response teams from the Africa CDC emergency roster and from relevant partner institutions across the PANDORA network. The event will focus on building rapid responders’ research skills that will enable them to build operational research collaborations and more effectively respond to zoonotic diseases outbreaks using a “One Health” approach.

The workshop will emphasize the power of combining data from animal, human and environmental sectors to help design epidemiologic studies that can guide evidence-based interventions against zoonotic diseases outbreaks. The event will also highlight the opportunity for predicting zoonotic diseases outbreaks through One Health Early Warning and Response System. This is to create lead time to inform the surveillance system and allow for a successful preparedness and response strategy against such outbreaks.

The main objectives of this workshop are to:

- Present opportunities and challenges of collecting, aggregating, and sharing zoonotic diseases’ data across animal, human and environmental sectors as a base for integrated One Health research.
- Emphasize relevant epidemiologic study designs that can provide evidence for zoonotic outbreaks preparation and response interventions.
- Advocate for One Health Early Warning and Response System that can provide lead time for possible adverse conditions which could trigger occurrence of zoonotic diseases outbreaks.
- Elaborate syndromic surveillance and [event-based surveillance](#) as tools to strengthen the surveillance for zoonoses in Africa.
- Encourage participants to share knowledge, competences, and skills that they will gain during the workshop with their colleagues in different African countries.

Workshop agenda

The workshop will be broken down into the below topics in two 3-hour sessions over the two days. Teaching will be a combination of short presentations, delegate participation and panel discussions, breakout rooms with case studies and Q&A.

Day 1: 31st of March 2021

TIME	TALK	PANELLISTS
13:00 - 13:20 GMT	Welcome and Introductions	<p><u>Chairs:</u> Dr Osman Dar Fellow of the Royal College of Physicians (Edinburgh) and of the Faculty of Public Health (UK). Director of the Global Health Programme's One Health project (CHATHAM house), an umbrella term referring to the programme's work on zoonotic diseases, emerging infections, antimicrobial resistance, and food security.</p> <p>Dr Raji Tajudeen Coordinates the establishment and strengthening of National Public Health Institutes across the 55 African Union Member States. Oversees the establishment of the five Africa CDC Regional Collaborating Centers and coordinates the Africa CDC Institute for Workforce Development and the public health research agenda.</p>
13:20 - 14:10 GMT	<p><u>Session 1:</u> Collecting aggregating, analysing and sharing zoonotic diseases' data across animal, human and environmental sectors</p> <p><i>(Interactive session with discussion and Q&A)</i></p>	<p><u>Chair:</u> Dr John Amuasi Principal Investigator for ALERRT COVID-19 Clinical Characterisation Protocol (CCP), KNUST/KCCR, Ghana</p> <p><u>Speakers:</u> Dr Richard Kock Veterinary ecologist/infectious disease researcher. He works on One Health) and on impact of food systems in disease emergence and environmental change across Africa and Asia. Professor Emerging Diseases at the Royal Veterinary College, London.</p> <p>Dr Danny Asogun Professor of Public health. He is the foundation director of the Institute of Lassa fever Research and Control in ISTH and Chief operations officer at the ISTH Research System.</p> <p>Dr Wanda Markotter Director of the Centre for Viral Zoonoses, Faculty of Health Sciences, University of Pretoria. Her interdisciplinary research programme focuses on bat pathogens and the risk of spillover in Africa.</p>
14:10 - 15:00 GMT	<p><u>Session 2:</u> Epidemiologic study designs: how they can guide evidence-based interventions against zoonotic disease outbreaks</p>	<p><u>Chair:</u> Dr.Yewande Alimi Antimicrobial Resistance (AMR) and One Health Program Coordinator at Africa Centres for Disease Control and Prevention, and co-lead for the Africa Union Task force on AMR. Dr Alimi currently leads the implementation of the Africa Union Framework for AMR Control in Africa Union member states, and the implementation of the Africa CDC Framework for One Health Practice in NPHIs.</p>

	<i>(Interactive session with discussion and Q&A)</i>	<p>Speakers:</p> <p>Dr Marietjie Venter Head of the zoonotic arbo and respiratory virus programme in the Centre for Viral Zoonoses, Department Medical Virology, University of Pretoria and has over 15 years experience in One Health investigations in the field. She is a member of the WHO Technical Advisory group on Arboviruses and chairs the Scientific Advisory group on the origins of Novel Pathogens</p> <p>Dr Vincent Obanda Disease Ecologist with over 15 years of research, applying One Health concept, focusing on understanding the dynamics and drivers of disease emergence and spread. As a Veterinary Researcher at the Kenya Wildlife Service (KWS), he has experience working with Inter-sectoral teams in response to zoonotic disease surveillance, prevention, and/or control. Currently, he is responsible for Research Permitting and Compliance at the Wildlife Research and Training Institute (WRTI), Kenya.</p> <p>Dr Lian Francesca Thomas Veterinarian and epidemiologist with a strong interest in the economics of zoonotic disease control within a One Health framework. Lian currently leads the theme on Neglected Zoonotic Diseases within the BMZ funded One Health Centre in Africa at ILRI and holds a One Health fellowship from the Soulsby Foundation.</p>
15:00 - 16:00 GMT	<p>Case Study Session (Part I)</p> <p><i>(Interactive session with discussion and Q&A)</i></p>	<p>Moderator:</p> <p>Dr Osama Ahmed Hassan: Associate professor of One Health at Umeå University, Sweden. Osama has substantial experience of 21 years and his work is based on three pillars of research, teaching and service. His research focuses on threats at human, animal and environment interface and the “One Health” approach to confront that. He has been involved in many preparedness and response projects for emerging and re-emerging diseases in Africa, Middle East and European Union.</p>
16:00 GMT	Closure	

Day 2: 1st of April 2021

TIME	TALK	PANELLISTS
13:00 - 13:20 GMT	Welcome and Introductions	<p>Dr Osman Dar Fellow of the Royal College of Physicians (Edinburgh) and of the Faculty of Public Health (UK). Director of the Global Health Programme’s One Health project (CHATHAM house), an umbrella term referring to the programme’s work on zoonotic diseases, emerging infections, antimicrobial resistance, and food security. Medical consultant in global health at UK Health Security Agency (UKHSA). Member and working group co-chair for the United Nations sponsored One Health High Level Expert Panel (OHHLEP).</p>

		<p>Dr Mohammed Abdulaziz Head of Division, Disease control and Prevention and Acting Head Division of surveillance and Disease Intelligence of Africa CDC, and co-chair for the Infection Prevention and Control Technical Working Group for Africa CDC continental response to COVID-19. Foundation fellow of the Africa CDC for leadership in public health in Africa.</p>
13:20 - 14:10 GMT	<p><u>Session 3:</u> One Health Early Warning and Response System Tools <i>(Interactive session with discussion and Q&A)</i></p>	<p><u>Chair:</u> Laura Espinosa Public health veterinarian specialised in food safety, public health, and One Health with experience in epidemiology, microbiology and preparedness and response of public health threats at national and international level. She is currently the Epidemic Intelligence Expert at the European Centre for Disease Prevention and Control (ECDC).</p> <p><u>Speakers:</u> Ms Kyeng Mercy Tetuh Epidemiologist strengthening health systems in detecting and responding promptly to public health threats. She currently leads the Event-Based Surveillance (EBS) program of the Africa CDC and the development and operationalization of the AU Health Information Exchange Policy and Standards for health systems in Africa.</p> <p>Dr Andrea Capobianco Dondona Global Early Warning System Coordinator for FAO leading the activities on disease monitoring, analysis and forecasting to ensure early warning and early action for transboundary disease threats</p> <p>Dr Mwangi Thumbi Infectious disease epidemiologist leading research on prevention and control of zoonoses in East Africa. Associate Professor at the Paul G Allen School for Global Health at Washington State University, Chancellors Fellow in Global Health at University of Edinburgh, and Co-Director of the Center for Epidemiological Modelling and Analysis, University of Nairobi.</p>
14:10 - 15:00 GMT	<p><u>Session 4:</u> Syndromic surveillance as a tool to strengthen the conventional surveillance in Africa <i>(Interactive session with discussion and Q&A)</i></p>	<p><u>Chair:</u> Salome Bukachi Social/medical anthropologist with vast experience on infectious diseases with a focus on zoonotic diseases, gender issues, nutrition anthropology, health systems, socio-economic and cultural/behavioural aspects of infectious diseases and development. She currently lectures in Anthropology at the University of Nairobi.</p> <p><u>Speakers:</u> Dr Stephanie Jane Fazekas Salyer Doctor in veterinary medicine and master in public health, focusing her research on zoonotic diseases at the animal-human interface. Dr. Salyer worked as a veterinary epidemiologist, serving as a liaison with CDC's One Health Office and implementing public health programs and interface-related research for diseases like dengue, cholera, rabies, Ebola, CCHF, and zika.</p>

		<p>Dr Jakob Zinsstag Deputy head of department of Epidemiology and Public Health at Swiss TPH where heads a research group on human and animal health. He focuses on the control of zoonoses in developing countries and the provision of health care to mobile pastoralists using a One Health approach. Past president of the International Association for Ecology and Health and president of the scientific board of the Transdisciplinary network of the Swiss Academies.</p> <p>Yahya Osman Veterinarian working at the Jigjiga university of Ethiopia. Currently doing his PHD in epidemiology in the University of Basel focusing on the best ways to operationalize the One Health surveillance and response in the Somali region of Ethiopia, Yahya has played a major role in its establishment.</p> <p>Dr Harry Oyas National Veterinary Epidemiologist, Senior Deputy Director of Veterinary Services, Head: Disease Surveillance, Vector Regulatory and Zoological Services Division</p>
<p>15:00 - 16:00 GMT</p>	<p>Case Study Session (Part II) <i>(Interactive session with discussion and Q&A)</i></p>	<p><u>Moderator:</u> Dr Karishma Kurup Research Fellow in Centre for Universal Health working on Health Security and One Health. Her work expertise lies in infectious diseases, health systems, health technology assessment and disaster management.</p> <p>Dr Ivy Asantewaa Asante Research Fellow at the Virology Department of the Noguchi Memorial Institute for Medical Research, University of Ghana. Dr Asante's interest is adapting avian influenza viruses to the mammalian host.</p>
<p>16:00 GMT</p>	<p>Closure</p>	