

Pandemics: Emergence, Spread and Response Advisory Committee

Alex Riolexus Ario

Alex is a Medical Doctor and Public Health Specialist with extensive knowledge in epidemiology, health policy, health systems reform and quality improvement models. Ario has worked in various capacities in government and agencies including as Hospital Superintendent and District Health Officer as well as Health Advisor, Health Sector Support Program, Ministry of Health. Dr. Ario also worked as Care and Treatment Manager in the Uganda Ministry of Health, STD/AIDS Control Programme; and served/serves as a member in numerous Technical Working Groups, Steering Committees and Boards. A reviewer and editor in numerous peer reviewed journals. Board Member, Africa CDC's Journal of Public Health in Africa; Member, Africa Mortality Surveillance Task Force; Deputy Chair, East Africa Mortality Surveillance Task Force; Member, Africa COVID-19 Surveillance Task Force; Deputy Chair, Uganda National COVID-19 Inter-Agency Technical Task Force; Member, Advisory Committee, Koffi Annan Global Health Leadership Program; Chair, International Association of National Public Health Institutes, Africa Network. Dr. Ario is currently the Program Director of the Uganda Public Health Fellowship Program (Advanced FETP) and Director, Uganda National Institute of Public Health.

Andrew Corwin

Andrew is an infectious disease epidemiologist and a retired US Navy CAPTAIN, who spent the last 14 years of his naval career at the US Naval Medical Research Unit No. 2 (NAMRU-2) in Jakarta, Indonesia, where he established and directed the NAMRU-2/WHO-SEARO Collaborating Center for Emerging Diseases. He went on to manage the US Centers for Disease Prevention and Control (US CDC) portfolio in Lao PDR for 10 years as Country Director. Dr. Corwin currently serves as lecturer/staff in the Global Health Program, Faculty of Public Health, Thammasat University (Rangsit Campus), Bangkok, Thailand.

Dr. Corwin has authored over 90 peer reviewed papers and has spent his professional career chasing down emerging and re-emerging infectious diseases, and developing the investigate tools in assisting the region in preparing for such threats. His recent works explore "one health" approaches to pandemic preparedness, with emphasis on "vaccine challenges".

Anna Seale

Anna is Professor of Public Health in Warwick. She trained in medicine, and specialized initially in paediatrics. She then developed research interests in neonatal infection, and in particular Group B Streptococcus, working at the KEMRI-Wellcome Trust Research Centre in Kenya, through the University of Oxford.

She completed her clinical training in public health, and developed a programme of work at the London School of Hygiene & Tropical Medicine, setting up a new Gates-funded research programme in Eastern Ethiopia, in collaboration with Haramaya University, to investigate the specific causes of death in children. She also took up a Wellcome Trust Career Development Fellowship to investigate the infectious causes of perinatal death in Kenya and Ethiopia.

Anna subsequently used her public health experience and infectious disease research to lead the research programme of the UK Public Health Rapid Support Team, developing multi-disciplinary research projects in outbreaks of infectious diseases in low-resource settings, and supporting capacity development in the context of outbreak response.

During the COVID-19 pandemic she seconded to the Joint Biosecurity Centre where she led an interdisciplinary team to provide public health analytics on disease prevalence, health care, vaccine impact and variants, to inform the national response.

Arlinda Cerga Pashoja

Arlinda is the Training Lead for UK-PHRST and Assistant Professor (global mental health) at LSHTM, with background in health research and a real passion for improving population health and quality of life. She brings more than 18 years of valuable experience as training lead, NHS clinician, researcher and academic with a particular insight into education within health care settings. As the Training Lead for UK-Public Health Rapid Support Team (UK-PHRST) she leads on both strategy and operational delivery of training and capacity development of multidisciplinary team members, reservists, Field Epidemiology Training Program fellows as well as a wide range of partners in LMICs. She provides strategic influence on the use of learning technologies to support learning and the application of simulation-based education. Arlinda has been teaching on the MSc Global Mental Health; the distant learning course PGDip/MSc Clinical Trials and several MOOCs such as Covid-19 Tackling the Novel Coronavirus. She has been providing supervising and marking MSc dissertations also been assessing students' work through marking exams and assignments.

Felix Ocom

Felix is a Deputy Manager of the National Public Health Emergency Operations Centre, Ministry of Health, Uganda; and Deputy Chair of the surveillance sub-committee of the national task force (NTF) for epidemics; and a member of COVID-19 and Ebola virus disease Incident Management Teams. He is a member of the Uganda National Rapid Response Team for public health emergencies, and a national trainer for Integrated Disease Surveillance and Response. Felix participates in the development implementation, and evaluation of national public health emergency preparedness and response strategies, in line with International Health Regulations (2005).

Chikwe Ihekweazu

Chikwe is an Infectious Disease Epidemiologist and consultant in Public Health Medicine. He has held public health and leadership positions in several national public health institutes for more than 25 years, including the Nigeria Centre for Disease Control, the South African National Institute for Communicable Diseases, the United Kingdom's Health Protection Agency, and Germany's Robert Koch Institute.

He will start serving as Assistant Director-General at WHO leading the WHO Hub for Pandemic and Epidemic Intelligence in Berlin in November. His scientific research has been focused largely on intervention epidemiology.

Claire Bayntun

Claire is a medical doctor specialising in the field of Global Public Health, while continuing to clinically practice in Health Protection. She participated in the Ebola crisis in West Africa, supporting the development of services on the ground, reporting for the UN High Level Panel on Global Response to Health Crises, and evaluating the response of Medecins sans Frontieres in Sierra Leone.

Claire has qualifications in Psychology (BSc University of York), the Political Economy of Development, Conflict and Human Rights (MSc School of Oriental & African Studies, London), as an international photojournalist (PostGrad Diploma, University of London Arts), in addition to Public Health (MPH, Imperial College, and professional qualifications from the Faculty of Public Health), Medicine and Surgery (MBBS University of London).

Claire is an Examiner for the Diploma in the Medical Care of Catastrophes, and is Trustee and Vice President of the Royal Society of Medicine.

Daniel Bausch

Daniel is the Director of Emerging Threats and Global Health Security at FIND, the global alliance for diagnostics, in Geneva, Switzerland, leading FIND's efforts on pandemic preparedness and response. He is trained in internal medicine, infectious diseases, tropical medicine, and public health. Dr Bausch specializes in the research and control of emerging tropical viruses, with over 25 years' experience in sub-Saharan Africa, Latin America, and Asia combating viruses such as Ebola, Lassa, hantavirus, and SARS coronaviruses. Previously, he served as Director of the United Kingdom's Public Health Rapid Support team (2017-21), a joint effort by Public Health England and the London School of Hygiene & Tropical Medicine to respond and conduct research to prevent and control outbreaks of dangerous infectious diseases around the world. He has also held posts at the World Health Organisation in Geneva, Switzerland; U.S. Naval Medical Research Unit No. 6 in Lima, Peru; Tulane School of Public Health and Tropical Medicine in New Orleans, USA; and the U.S. Centers for Disease Control and Prevention in Atlanta, USA. In addition to his role at FIND, Dr Bausch holds an appointment as a Professor of Tropical Medicine at the London School of Hygiene and Tropical Medicine and is the President-Elect of the American Society of Tropical Medicine and Hygiene. He places a strong emphasis on capacity development in all his projects and has a keen interest in the role of the scientist in promoting health and human rights. Dr Bausch is fluent in English, French and Spanish.

Ester Sabino

Ester started her scientific training in San Francisco in 1991 through a Fogarty International AIDS Training grant. After returning to Brazil, Ester collaborated with the Brazilian Ministry of Health AIDS Program to establish a laboratory network to perform viral load and drug resistance testing. These networks support the treatment of 600,000 HIV+ individuals receiving free antiretroviral treatment in the public health system. In 2006, Ester coordinated a blood bank network to participate in the NHLBI/NIH REDS program focused on blood safety. During this program, she led several studies on dengue transmission by transfusion, Chagas disease natural history and Sickle cell anaemia. In 2011 Ester became an associate professor at the University of Sao Paulo and served as the director of the Institute of Tropical Medicine from 2015- 2020. Since 2015, Ester has been participating in the international effort to establish a rapid research response to new emerging threats. This included studies on Zika, Yellow fever and more recently on SARS-CoV-2. These studies established the

capacity for real time and large-scale virus sequencing at the University of Sao Paulo. Ester also established a large-scale community-based observational COVID-19 cohort in the city of Sao Caetano for use as a model for primary care responses to covid-19 in Brazil. She has also coordinated the studies that described the Covid-2 epidemic in Manaus and characterized the spread of the SARS-CoV-2 gamma variant in Brazil.

Gabriel Leung

One of Asia's most respected higher education and health leaders, Gabriel Leung is known for his commitment to expanding student opportunity, building strong institutions and nurturing impactful innovation. He is the fortieth Dean of Medicine and inaugural Helen and Francis Zimmern Professor in Population Health at the University of Hong Kong.

A specialist in public health medicine by training, Gabriel is one of the region's leading epidemiologists and global health exponents. His work has revolved around topics that have major population health impact locally, where Hong Kong is a reliable and unique epidemiologic sentinel for mainland China and the Chinese diaspora, or where it is best placed to address the fundamental science at hand globally.

He is an elected member of the US National Academy of Medicine and was awarded the Gold Bauhinia Star (second highest civilian honour) by the Hong Kong government for distinguished service in protecting and promoting population health.

Hilary Bower

Hilary is an epidemiologist with extensive field experience in Africa and Asia. As a deployable member of the UK Public Health Rapid Support Team, established to respond to outbreaks, carry out research in outbreak-prone diseases, and build capacity for epidemic disease and outbreak response in low- and middle-income countries, she works with national colleagues in multiple countries and with supra-national organisations such as the Africa Centres for Disease Control and WHO. She is also an Assistant Professor in Infectious Disease Epidemiology at the London School of Hygiene & Tropical Medicine and tutors on a range of LSHTM Master modules. Her research interests are in emerging and epidemic-prone infectious diseases and improving outbreak responses and interventions.

Hitoshi Oshitani

Hitoshi is a professor for the Department of Virology of Tohoku University Graduate School of Medicine. Before joining Tohoku University, he was a regional advisor of the World Health Organization (WHO) Western Pacific Regional Office (WPRO) in Manila, the Philippines, from 1999 to 2005, where he was responsible for emerging diseases, including severe acute respiratory syndrome (SARS) and avian and pandemic influenza. He worked as a technical expert for Japan International Cooperation (JICA) in Zambia from 1991-1994. His main research interest is epidemiology and control of viral infections, particularly respiratory viruses such as influenza and respiratory syncytial viruses. His research group has been conducting research in Japan and other countries such as the Philippines, Mongolia, and Zambia. He is also a member of the advisory committee on COVID-19 response in Japan.

Li Yang

Li is an infectious diseases physician who has spent the past decade researching and treating patients with antibiotic-resistant bacterial and invasive fungal infections. He is currently Vice Dean of Global Health and Programme Leader of Infectious Diseases at the NUS Saw Swee Hock School of Public Health.

He was formerly Clinical Director of the National Centre for Infectious Diseases and Director of the Singapore Infectious Diseases Initiative, which was established to spur collaborative biomedical and clinical research in infectious diseases.

Li Yang has served in several committees in the Ministry of Health (MOH). In particular, he co-chaired the RIE2020 infectious diseases workgroup, promoting antimicrobial stewardship, better control of antimicrobial resistance (leading to the launch of Singapore's National Strategic Action Plan on Antimicrobial Resistance in November 2017), as well as tuberculosis. He continues to work with MOH on a part-time professional scheme. He has also served as a technical advisor on surveillance of antimicrobial resistance to the western pacific regional office of the World Health Organization.

Li Yang was the founding director of the School's Centre for Infectious Disease Epidemiology and Research (CIDER) established in 2012, and has briefly worked in the private sector as an infectious disease physician, providing specialist services between 2014 and 2016.

Professor James Logan

James is a Professor in the Department of Disease Control at LSHTM, with experience in surveillance and control vector borne diseases, including Zika, and in developing and evaluating novel diagnostics for malaria and COVID. Recently, his research has included the investigation and validation of using sniffer dogs and electronic sensors for the screening and diagnosis of malaria and COVID, using volatile odour biomarkers of disease. This has also involved liaising with various stakeholders including the WHO, local governments and health authorities, as well as industry, to define target product profiles and guidelines for the testing and validation of new tools. His experience includes community engagement, educational and behaviour change programmes, and he is currently leading a COVID and malaria educational programme in Malawi and Mali using SMS mobile messaging which has so far reach more than 5 million people in remote communities. James has also developed story books (e.g. Dr Dog) and school resources (via the school publisher, Twinkl) to educate children and their families about the biology of coronaviruses, hygiene and to aid with interpreting government recommendations, as well as a free online open access educational course on COVID for teenagers.

Jenny Fogarty

Jenny is a Senior Lecturer in Education Development at City, University of London and formerly Assistant Professor in Learning and Teaching at LSHTM. Jenny has supported the UK-PHRST in a range of education focused projects including a curriculum review of the Masters in Public Health at the University of Sierra Leone and the COVID-19 MOOC in March 2020. She brings knowledge and expertise in course design and student engagement with a particular focus on authentic assessment and reflective practice.

Joshua Kayiwa

Joshua is a medical statistician by training, with a high specialization in the management for outbreaks of tropical infectious diseases, coupled with a glowing passion for the design, implementation of epidemiological investigations, analysis of the resulting data. His profile is stamped with sixteen years of progressive career growth in Public Health Emergency Management (PHEM), Clinical Data Management (CDM), statistical programming / analysis, post-graduate tutoring; eight years while serving in leadership positions, which involved leading teams to achieve pre-defined targets; over 30 scientific manuscripts which are currently published in peer-reviewed journals, among other achievements.

Currently, Joshua is based at the local Ministry of Health within the Public Health Emergency Operations Centre (PHEOC), where he heads the information management section. This post has seen him contribute to the successful control of the several infectious diseases in Uganda, including Ebola Virus Disease, Marburg Virus Disease, Rift Valley Fevers, Crimean Congo Hemorrhagic Fevers, Yellow Fevers, Anthrax, Measles, cholera, Dengue Fever, Influenzas, West Nile Fever, Plague, among others. Currently, the PHEOC is actively involved in mounting appropriate response to the COVID19 pandemic, alongside other activations. Joshua also heads the team overseeing the country's electronic Integrated Diseases Surveillance and Response (eIDSR), a system overseeing all epidemiological surveillance for any potential outbreaks, leading to the mounting of appropriate and timely responses to diseases outbreaks.

Mayfond Mayxay

Mayfong has been working for LOMWRU since the establishment of the Unit in 2000. He has led clinical trials of antimalarials and other field clinical research in Laos since 2000 and between 2002 and 2006, under the supervision of Prof. Nick White and Prof. Paul Newton, he carried out his Wellcome fellowship training in clinical tropical medicine with the research entitled "Clinical and laboratory studies to guide Lao national antimalarial drug policy" which was associated with Mahidol and Oxford Universities. The results from his research had led to the change of the Lao national policy for uncomplicated falciparum malaria treatment from chloroquine and sulphadoxine-pyrimethamine to ACTs (artemether-lumefantrine) in 2005.

Mayfong is the Head of the Field Research of LOMWRU, Associate Professor, and Vice-President of the Lao University of Health Sciences, Ministry of Health. He has also been an Honorary Visiting Research Fellow in Tropical Medicine at Oxford since 2009. His particular research interests include antimalarial drug resistance, causes of fever, dengue, rickettsial infections, Japanese encephalitis virus infection, and infantile beriberi.

Merawi Aragaw Tegegne

Merawi is Medical Epidemiologist and Head of Emergency Preparedness and Response Division at the Africa Centres for Disease Control and Prevention (Africa CDC). Has over fifteen years of experience in public health emergency and disaster risk management. He leads the establishment and operations of the Africa CDC rapid response surge capacities- the African Volunteer Health Corps. He's pioneer in the establishment of the Africa CDC; and served as a member of the multi-national expert committee of the African Union for the establishment of Africa CDC in 2014-2016.

Prior to his current post, Merawi has served as Advisor to the Minister of Health of Ethiopia on public health emergency management for more than 6 years. He led and participated different disease outbreak investigations and responses both nationally and internationally. He played a pivotal role between various supervisory and advisory mechanisms, and engaged in policy and strategy generation, guidance and decision especially on matters related to public health emergencies.

A Medical Doctor by training with Masters in Public Health; Merawi is a fellow of the Executive Programme Global Health Leadership of London School of Hygiene & Tropical Medicine.

Mike Hill

Mike is an Assistant Professor in Learning and Teaching at LSHTM. His main role at the School is to work with faculty to improve the student academic experience. This work involves working closely with less experienced staff on their teaching, tutoring and supervision skills as well as working with Module Organisers and Programme Directors on their learning, teaching and assessment strategies. Mike's research interest is concerned with the effect higher education can have on social mobility and he has a particular interest in the experience of students across the UK who have been in local authority care.

Moa M Herrgard

Moa is a research associate at the Centre for Research on Healthcare in Disasters, at Karolinska Institute, Department of Public Health. She has for seven years been part of developing and implementing innovative and interactive teaching courses and training in disaster medicine for healthcare workers and communities worldwide. In adaptation to the current COVID-19 pandemic, she developed an online open-access simulation technology for health care workers, which is currently under rollout within Sweden.

Moa undertook a master in Epidemiology at London Scholl of Hygiene and Tropical Medicine, the year 2020/21, and is currently working as an epidemiologist at Charité – Universitätsmedizin Berlin, assessing COVID-19 vaccine efficacy.

In parallel to academic work, Moa has for seven years facilitated stakeholder engagement within United Nations intergovernmental policy processes related to the nexus between humanitarian actions and resilience.

Nabila Youssouf

Nabila is a clinical project manager with 10 years' experience of delivering clinical trials to time, target and budget. Her experience spans from oncology trials, where I contributed to the coordination and management of multiple sites in the UK and Europe. Nabila diversified to managing trials in cardiovascular diseases and neonatology, before focusing on multi- centre, international trials in emergency medicine and HIV in low to middle income countries. She joined LSHTM in 2015 as a Senior Trials Manager/Research Fellow.

Nabila is based in Botswana, Southern Africa, where she manages the AMBITION-cm trial which recently completed recruitment and analyses. She is also leading on an implementation science project aiming to integrate hypertension and cardiovascular care cascade into existing HIV care

services in Botswana. She was recently awarded a grant to explore the impact of COVID-19 on research activities of UG3/UH3 (NIH/NHLBI implementation science funding mechanism) 2020-2025 awardees. Nabila is also part of the UK Trial Managers Network Executive Board.

Ngozi Erundu

Ngozi is trained as an Infectious Disease Epidemiologist and is a health system policy and global health governance expert. Currently, Dr Erundu is also a Senior Scholar with the Global Health Policy & Politics Initiative at the Georgetown Law Centre O'Neill Institute. Her work includes examining national and international policy to facilitate disease reduction and improve health systems for health emergency preparedness.

Dr Erundu has founded multiple social enterprises, including Project Zambezi— a social enterprise that developed a novel tech-enabled logistics approach to improve access to essential medicines throughout sub-Saharan Africa. She is also a former Assistant Professor at the London School of Hygiene and Tropical Medicine where she taught disease outbreak response and epidemiology and was a Senior Public Health Advisor at Public Health England. She often provides technical support to the Africa Centres for Disease Control (CDC), the World Health Organisation, the Nigeria CDC, the US CDC, and other governments across sub-Saharan Africa, the Middle East, and South East Asia. Her support is aimed at strengthening institutional capacity to control infectious diseases such as Covid19, Ebola, meningitis, malaria, and poliomyelitis. She is a Trustee at Imperial Health Charity and is a Fellow with the Aspen Institute and the John Hopkins University Emerging Leader in Biosecurity Programme.

Richard Kock

Richard is a wildlife veterinary ecologist in the field of wildlife health focused on Africa and Asia. He works in One Health at the interface between animals, humans and environment and on the role of food systems in disease emergence and environmental change. 40 years as a professional, 28 years attached to the Zoological Society of London mostly resident in Nairobi, Kenya, seconded to Wildlife Service and African Union. 10 years as Prof Wildlife Health and Emerging Diseases at the Royal Veterinary College London. Awarded FAO Bronze Medal in 2010 in recognition of work on morbilliviruses and eradication of rinderpest virus and the Tom and Beth Williams Award - Wildlife Disease Association for exceptional contributions to understanding wildlife disease of policy relevance. His research portfolio involves over £1.5 million. More than 224 peer reviewed publications, book chapters. RG score 40.12 h index 44 i10 index 124 citations 9020. He established at RVC One Health MSc jointly with London School Hygiene and Tropical Medicine and he lectures on One Health and Wildlife disease. Associate Research Fellow Chatham House Co-chair IUCN Species Survival Commission Wildlife Health Specialist Group Strategic Futures Committee Wildlife Disease Association Adjunct Prof Tufts University Grafton USA; Njala University Bo Sierra Leone

Rumina Hasan

Rumina is a Consultant Clinical Microbiologist and Professor in the Department of Pathology and Laboratory Medicine at the Aga Khan University, Karachi, and an Honorary Professor Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, UK. Dr. Hasan's

areas of interest include emerging infections with a particular focus on tuberculosis and antimicrobial resistance.

She has served as Vice Chair of the Global Laboratory Initiative (2012-2014) and member of New Diagnostic Working Group (2011-2014). She is currently the Chairperson of the WHO Eastern Mediterranean Regional Green Light Committee (RGLC). Dr. Hasan also served on the WHO Strategic Technical Advisory Group on Antimicrobial Resistance (STAG-AMR) (2018-2020) and contributed to a number of Guideline Development Groups and Technical Expert Groups at WHO. She is a member ReAct Advisory Group to provide strategic advice on the ReAct Toolbox, a web-based repository on antibiotic resistance. She is a member of the Pakistan Medical Commission, a regulatory body that sets and oversees standard of basic and higher medical education in the country.

Shelley Lees

Shelley is a medical anthropologist, with 25 years experience in research on public health issues on HIV, STIs, gender-based violence, cancer, and maternal health, and 15 years experience based in East Africa. Her global health research has expanded recently, and she is now managing social science research projects in the Sierra Leone, Uganda, Brazil and DRC. Her current focus is on anthropological perspectives of epidemic response, with a focus on Ebola vaccine clinical trials and medical humanitarian response. Here she investigates the social and political contexts and consequences of biomedical approaches to (emergency) public health. She is also on the executive committee and work-package lead for the ALERRT consortium, where she conducts research on community engagement for biomedical research for epidemics across sub-Saharan Africa. Further to this, she leads a number of anthropological studies on vaccine deployment. She also leads on research projects which focus on the prevention of intimate partner violence in Africa, which has public and global health implications. Through this work she has in-depth knowledge of global health policy and systems. She brings anthropological expertise to multi-disciplinary public health inventions (including health systems research, clinical trials, or violence prevention interventions), as well exploring the impact of these interventions on people and their communities. Much of her research is informing policy around epidemic preparedness and the prevention of intimate partner violence.

Vernon Lee

Vernon is a preventive medicine physician and adjunct Professor at the Saw Swee Hock School of Public Health, National University of Singapore. He is also Senior Director of Communicable Diseases at the Ministry of Health, and sits on the Council of the Academy of Medicine, Singapore.

His areas of expertise include infectious diseases epidemiology, pandemic preparedness and response, and evidence-based health policy. He has previously worked in the WHO Office in Indonesia and WHO headquarters in Geneva, and continues to contribute to international working groups and advisory panels on infectious diseases.

Prof Lee graduated from medical school at the National University of Singapore. He also holds a PhD in epidemiology from the Australian National University, and the Master in Public Health and Master of Business Administration degrees from the Johns Hopkins University, USA.

Wendy Graham

Wendy is a research scientist in maternal and perinatal health improvement in low-and-middle-income countries. Her career spans over 30 years, and she is currently Professor of Obstetric Epidemiology at the London School of Hygiene and Tropical Medicine and Emeritus Professor at the University of Aberdeen.

The initial focus of Prof Graham's work was the prevention of maternal mortality, setting-up surveillance systems in collaboration with partners in LMICs and with major international organizations, such as WHO. Today she conducts epidemiological and implementation research for the reduction of healthcare-associated infections among mothers and newborns, including infection prevention control strategies in humanitarian settings.