



The Lancet Commission on malaria eradication

Malaria eradication within a generation: ambitious, achievable and necessary

Royal Academy of Engineering, London
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Professor Fred Binka*

Foundation Vice-Chancellor, University of Health and Allied Sciences, Ghana

Professor Fred Binka is Professor of Epidemiology and the Foundation Vice-Chancellor of the University of Health and Allied Sciences, Ho, Ghana. He previously served as Dean of the School of Public Health, University of Ghana and as Executive Director and Coordinator of the Secretariat at the INDEPTH Network, an international NGO focused on health and population research in 24 countries in Africa and Asia. As a Founding Director of the internationally acclaimed Navrongo Health Research Centre, he led a team that conducted several large-scale community intervention studies in Ghana, including a randomized trial of insecticide-treated bed nets. He began his career with Ghana's Ministry of Health, where he worked for more than 20 years in a number of capacities. Professor Binka holds a PhD in Epidemiology from the University of Basel in Switzerland, a MPH from Hebrew University in Jerusalem, and a medical degree from the University of Ghana.

Professor Austin Burt

Professor, Evolutionary Genetics, Imperial College, United Kingdom

Professor Austin Burt is Professor of Evolutionary Genetics at Imperial College London. His research has spanned many topics in evolutionary biology and population genetics, and most recently has focused on the use of novel genetic methods (in particular various forms of "gene drive") to control the transmission of vector-borne diseases. This interest led to him becoming Principal Investigator of Target Malaria, an international not-for-profit consortium of over 100 researchers in 14 institutions seeking to develop a self-sustaining modified mosquito technology that will contribute to the elimination and eventual eradication of malaria. He received a BSc and PhD from McGill University, and held postdoctoral positions at University of California, Santa Cruz and University of California, Berkeley.

Dr. Elizabeth Chizema

**National Coordinator, End Malaria Council, Zambia
Former National Malaria Program Director, Zambia**

Dr. Elizabeth Chizema is Coordinator of the End Malaria Council in Zambia, a high-level multi-sector body convened to support the country's elimination efforts. Until recently, Dr. Chizema was the Director of the National Malaria Elimination Program at the Ministry of Health, Zambia, where she helped achieve remarkable reductions in malaria morbidity and mortality and raised the profile for Zambia's elimination efforts. She previously served as Director of Disease Surveillance, Control, and Research, Director of Public Health and Research, and Director of Technical Support Services at the Zambian Ministry of Health. She currently serves as co-chair of the Bill & Melinda Gates Foundation's Malaria Strategic Advisory Panel. Dr. Chizema earned a medical degree from the University of Zambia and a master's degree in public health from the University of Pretoria in South Africa.

Dr. Rebecca Cooney

North American Executive Editor, *The Lancet*, USA

Dr. Rebecca Cooney joined *The Lancet* in 2012 and currently serves as the North American Executive Editor. Previous to joining *The Lancet* family, she served as Assistant and Associate Editor of *The Annals of New York Academy of Sciences*. Dr. Cooney received her PhD in Psychology from Stanford University where she investigated the neural bases of mood and anxiety disorders and the intergenerational transmission of depression. She completed her post-doctoral training as a fellow in Child and Adolescent Psychiatry at Columbia University.

Dr. Abdou Diallo

**CEO, RBM Partnership to End Malaria, Geneva, Switzerland
Former Minister of Health, Guinea**

Dr. Abdou Diallo is a medical doctor with a master's degree in international public health from the Johns Hopkins University School of Public Health. He currently serves as the CEO of the

RBM Partnership to End Malaria, and was recently appointed Minister and Health Advisor to the President of Guinea. Previously, he served as the Minister of Health of Guinea. Before joining the government, Dr. Diallo was the Director of Public Health and Supply Chain Systems Strengthening for the Deliver Project, funded by USAID and implemented by John Snow, Inc. His responsibilities included overseeing and leading the project's activities worldwide in public health and supply chain systems strengthening. Dr. Diallo has worked on assessing, designing, implementing, and monitoring health systems, including supply chain systems for public health commodities, in more than 20 African, Caribbean, and Asian countries.

Sir Liam Donaldson

Chair, Independent Monitoring Board for Polio Eradication, Switzerland

Chancellor, Newcastle University, United Kingdom
Former Chief Medical Officer for England, United Kingdom

Sir Liam Donaldson is recognized as an international champion of healthcare quality, patient safety, and public health. Internationally, Sir Liam has served as member and Vice-Chairman of WHO's Executive Board and led the World Alliance for Patient Safety. He is currently the WHO Director-General's envoy on patient safety and chairs the International Monitoring Board on Polio Eradication. He is Chancellor of Newcastle University, Professor of Public Health at the London School of Hygiene and Tropical Medicine (LSHTM), and Honorary Distinguished Professor at Cardiff University. From 1998 to 2010, Sir Liam was the Chief Medical Officer for England, and the United Kingdom's Chief Medical Adviser. During this time he held critical responsibilities across the whole field of public health and healthcare and advised secretaries of state for health, the prime minister and other government ministers. Sir Liam received a knighthood in recognition of his achievements in 2002.

Professor Arjen Dondorp*

Deputy Director and Head of Malaria Research, Mahidol Oxford Tropical Medicine Research Unit, Thailand

Professor Arjen Dondorp joined the Mahidol-Oxford Tropical Medicine Research Unit (MORU) at Mahidol University in Bangkok, Thailand in 2000, and he is currently Deputy Director and Head of the Malaria and Critical Illness Department. He is also a Professor of Tropical Medicine at University of Oxford. His main research interests include the pathophysiology and treatment of severe malaria, antimalarial drug resistance (in particular artemisinin and multidrug resistance in *Plasmodium falciparum*) and the improvement of intensive care practice in developing countries. Professor Dondorp has been chairing the Technical Expert Group on Antimalarial Drug Resistance and Containment (now renamed Drug Efficacy and Response) for WHO's Global Malaria Programme in Geneva since 2012. He is also a member of the European Society of Intensive Care Medicine, a working group dedicated to the development of intensive care medicine in resource-poor countries. Professor Dondorp holds a doctorate in medicine and PhD from the University of Amsterdam.

Professor Sir Richard Feachem[‡]

Director, Global Health Group, University of California, San Francisco, USA

Co-chair, The Lancet Commission on malaria eradication, USA

Sir Richard Feachem is Director of the Global Health Group at the University of California, San Francisco (UCSF) Institute for Global Health Sciences, and Professor of Global Health at both UCSF and the University of California, Berkeley. He is also a Visiting Professor at London University and an Honorary Professor at the University of Queensland. From 2002 to 2007, Sir Richard served as founding Executive Director of the Global Fund to Fight AIDS, Tuberculosis and Malaria and Under Secretary General of the United Nations. From 1995 until 1999, Sir Richard was Director for Health, Nutrition and Population at the World Bank. Previously (1989-1995), he was Dean of the LSHTM. Sir Richard served on the Commission on macroeconomics and health, the Commission on HIV and governance in Africa, the Commission on investing in health, and is co-chair of the Commission on malaria eradication. Sir Richard holds a Doctor of Science in Medicine from the University of London, and a PhD in Environmental Health from the University of New South Wales. He is a Fellow of the Royal Academy of Engineering, an Honorary Fellow of the Faculty of Public Health of the Royal College of Physicians and of the American Society of Tropical Medicine and Hygiene, and a member of the U.S. National Academy of Medicine. Sir Richard was knighted by Her Majesty Queen Elizabeth II in 2007.

Dr. Scott Filler*

Malaria Team Leader, The Global Fund to Fight AIDS, Tuberculosis and Malaria, Switzerland

Dr. Scott Filler, MD, DTM&H, is a medical epidemiologist with extensive experience in international health. Dr. Filler currently works as the Global Fund's Malaria Team Leader. He has been with the Global Fund since 2011 and manages a team that provides internal malaria support and orchestrates external technical partnerships. Dr. Filler came to the Global Fund from the U.S. Centers for Disease Control and Prevention. His primary focus has been conducting operational research, translating research into policy, and implementing large scale malaria and HIV programs in sub-Saharan Africa, Asia, and the Americas. He has worked both for the U.S. President's Malaria Initiative and for the U.S. President's Emergency Plan for AIDS Relief. While in the U.S., Dr. Filler was also Assistant Professor at the Emory School of Medicine where he managed patients living with HIV/AIDS and trained future clinicians.

Professor Roly Gosling*

Co-Director, Malaria Elimination Initiative, Global Health Group, University of California, San Francisco, USA

Professor Roly Gosling, BmedSci, BM, BS, MSc, PhD, is co-Director of the Global Health Group's Malaria Elimination Initiative (MEI) and an Associate Professor of Epidemiology and Biostatistics at UCSF. Prior to joining the MEI, Professor Gosling worked in West Africa at the Medical Research Council

laboratories in The Gambia and spent seven years working in Tanzania, first as faculty for University College London and later for the LSHTM. During this time, he worked on clinical trials for malaria treatment and prevention, as well as tuberculosis treatment. Professor Gosling has a broad interest in public health in developing countries and specific interests in strategies to reduce malaria transmission, including how to detect declines in transmission and how to monitor malaria in low endemic or post-elimination settings. Professor Gosling has an MD from the University of Nottingham in the UK and an MSc and PhD from the LSHTM.

Dr. Richard Nchabi Kamwi*

**Ambassador, The Elimination 8, Namibia
Former Minister of Health, Namibia**

Dr. Richard Nchabi Kamwi, MSc, PhD, has worked in the health sector for the last 35 years. Dr. Kamwi began his career as head of the malaria response in Namibia. He later served as Deputy Minister and then Minister of Health in Namibia. Dr. Kamwi convened the inaugural Elimination 8 (E8) Initiative, which was established in 2009 as a platform for regional collaboration for malaria elimination in southern Africa. He currently serves as the E8 Ambassador, where he supports diplomatic and strategic engagement of ministers of health for malaria elimination. He is the Africa Center of Disease Control and Prevention (CDC) Champion, a board member of the RBM Partnership to End Malaria, and a member of the Independent Advisory Panel of the WHO Regional Director for Africa. Dr. Kamwi holds a PhD in malariology from the University of Namibia and master's degree in applied parasitology and medical entomology from the Liverpool School of Tropical Medicine.

Dr. Corine Karema*

Senior Technical Advisor for Infectious Diseases, Quality and Equity Healthcare, Rwanda

Dr. Corine Karema is currently the Senior Technical Advisor for Infectious Diseases, Quality and Equity Healthcare in Rwanda. Dr. Karema joined the Rwanda National Malaria Control Program (NMCP) in 2001 as head of epidemiological surveillance/operational research and later served as NMCP Director for 10 years. Dr. Karema served as co-chair of the East African RBM Network Coordination Committee from 2008-2014 and member of the Global Malaria Control and Elimination Technical Working Group as well as of the Scientific Advisory Committee for malaria policy and access of TDR/WHO Special Program. Dr. Karema is on the Global Fund Technical Review Panel for the 2017-2019 allocation periods and is a member of the WHO Programme Advisory Group of the RTS,S Malaria Vaccine Implementation Programme. She has a MD and MSc in epidemiology, and is a PhD student at Swiss Tropical and Public Health Institute.

Ms. Olivia Ngou

**Global Coordinator, Civil Society Network for Malaria Elimination, Cameroon
Executive Director, Impact Sante Afrique, Cameroon**

Ms. Olivia Ngou is currently serving as the Global Coordinator for the Civil Society for Malaria Elimination, the first global network of civil society organizations working together to jointly advocate for more effective, sustainable, people-centered, rights-based, equitable, and inclusive malaria programs. Ms. Ngou was previously Deputy Director, Africa, and Country Director, Cameroon, at Malaria No More. She worked as an intern at the UN Special Envoy for Malaria and was a Project Associate Fellow of the Graduate Center of the City University of New York, Health of the Wellness Project. She graduated from the City University of New York School of Public Health in 2012. Ms. Ngou is on the Global Fund Board as a member of the communities delegation and the RBM Country/Regional Support Partner Committee.

Professor Jetsumon Sattabongkot Prachumsri

Director, Mahidol Vivax Research Unit, Thailand

As Director of the Mahidol Vivax Research Unit, part of the Center of Excellence for Malaria Research, Professor Jetsumon Prachumsri leads a research team of 30 staff. Professor Prachumsri's primary research area is the biology and transmission of *Plasmodium vivax*. This includes vector studies and research to support development of new drugs and vaccines. Professor Prachumsri is Co-Director of the Southeast Asia Malaria Research Center, a multi-country collaborative project funded by the U.S. National Institutes of Health (NIH) that involves developing and evaluating integrated malaria control strategies in multiple sites with varying epidemiological conditions. Professor Prachumsri is Principal Investigator of another NIH-funded project on the identification of *P. vivax* antigens that can be used for serological screening of recent infection as a public health tool to monitor areas that have current transmission. She previously worked with the Department of Entomology of the USA Medical Component Armed Forces Research Institute of Medical Science, Bangkok.

Professor Neelam Sekhri Feachem*

**Professor of Comparative Health Policy and Financing,
University of California, San Francisco, USA**

Professor Neelam Sekhri Feachem has over 35 years of experience in health policy, financing, and management of healthcare systems. She is an Associate Professor in the Institute for Global Health Sciences at UCSF with a focus on health systems and financing policy, globally. Professor Sekhri Feachem is Course Director for Comparative Health Systems and Financing in the MS and PhD programs at the Institute for Global Health Sciences at UCSF; and the online Master's in Public Health at UCSF and University of California, Berkeley. From 2003 - 2007, Professor Sekhri Feachem was health financing and policy advisor at WHO, where she provided technical and policy

guidance to a range of countries on health financing, with a focus on private and public insurance, and methods to complement public financing with private funding instruments. As founder and CEO of The Healthcare Redesign Group, Professor Sekhri Feachem has advised governments and international organizations on health reform, financing, and policy.

Dr. Kenneth Staley*

U.S. Global Malaria Coordinator, USA

Dr. Kenneth Staley was appointed to lead the U.S. President's Malaria Initiative (PMI) in April 2018. As coordinator, Dr. Staley's primary responsibility is oversight and coordination of all resources and international activities of the U.S. government relating to efforts to combat malaria. Prior to his PMI appointment, Dr. Staley was a consultant at McKinsey & Company, where he assisted with large public health crisis responses to Ebola and Middle Eastern Respiratory Syndrome. Dr. Staley has also served as Deputy Assistant Secretary for Counterproliferation in the U.S. Department of State's Bureau of International Security and Nonproliferation, and Director for Biodefense Policy at the White House Homeland Security Council Biodefense Directorate. He earned a medical degree at the University of Iowa Carver College of Medicine, where he also received a distinguished alumni award for early career achievement. He earned a bachelor's degree in biology at Washington University and a master's degree in public administration at the Harvard Kennedy School.

Professor Charlotte Watts

Chief Scientific Adviser, Department for International Development, United Kingdom

Professor Charlotte Watts is Chief Scientific Adviser to the UK Department for International Development (DFID), serving as Director of the Research and Evidence Division and Head of the Science and Engineering Profession. Professor Watts is seconded to DFID from LSHTM, where she is Professor of Social and Mathematical Epidemiology. Professor Watts has 25 years of experience in international HIV and violence research and is the founder of the Gender, Violence and Health Centre at LSHTM. She is trained in mathematics, epidemiology, economics and social science methods. She was a core research team member for WHO's multi-country study on women's health and domestic violence, and a senior researcher on the IMAGE violence prevention study in South Africa. Professor Watts is a Fellow of the Academy of Medical Sciences, and Foreign Associate Member of the U.S. National Academy of Medicine. She has 200 academic publications, and has served on numerous UN technical and government advisory boards.

Professor Linda Yueh

Fellow in Economics, St Edmund Hall, University of Oxford, United Kingdom

Visiting Professor, IDEAS, London School of Economics and Political Science, United Kingdom

Adjunct Professor of Economics, London Business School, United Kingdom

Professor Linda Yueh is Fellow in Economics at St Edmund Hall, Oxford University and Adjunct Professor of Economics at London Business School. She is Visiting Professor at IDEAS, London School of Economics (LSE) and Political Science's Foreign Policy Centre, and Associate Fellow (Global Economy and Finance Department & the U.S. and the Americas Programme) at Chatham House. She was Visiting Professor of Economics at Peking University. Professor Yueh is Chair of the LSE Economic Diplomacy Commission, Chair of the Royal Commonwealth Society, and Trustee of the Coutts Foundation and Malaria No More UK. Professor Yueh has advised the World Bank, European Commission, Asian Development Bank, World Economic Forum in Davos, among others. She is a TV and radio presenter, including for BBC Radio 4 and the World Service.

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