



# Addressing the challenge of COVID-19 pandemic in low- and middle-income countries

**15-18 June, Online**

# Meeting Background

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In December 2019, a new type of viral pneumonia appeared in Hubei Province, China. It seemed highly infectious and resistant to therapy, infecting medical staff and other patients. There was initial delay in recognising the seriousness of disease, but early reports showed it to be very similar to the SARS1 coronavirus outbreak of 2002–04. SARS1 caused over 8,000 infections with approximately 10% mortality. The new disease, called COVID-19 and caused by a virus termed SARS-CoV-2, seemed milder, but still with 1% mortality. The initial cases were associated with the Huanan seafood market, in which exotic animals were sold for food, but it was soon clear that person to person transmission was occurring. By February 2020, outbreaks appeared outside China, most notably in Italy and Iran. Soon after, the World Health Organization (WHO) declared a pandemic.

Since then, different countries have seen the pandemic develop at different rates. These have been mirrored by different responses between countries ranging from public health responses, social and behavioural responses and clinical responses. The Academy of Medical Sciences were approached by the Brazilian National Academy of Medicine to host an online webinar to share evidence and learning from the UK's experience in tackling the COVID-19 pandemic to aid Brazil's efforts to combat the outbreak. Brazil were behind the UK in the infection and mortality curves for COVID-19 cases, which presented an opportunity for the UK to provide reflections on what has and has not worked in their response to the pandemic and areas that Brazil could focus on in their specific context.

The main aim of this workshop will be to consider the current response to the COVID-19 pandemic across three specific areas – public health; social and behavioural; and clinical – in several low- and middle-income countries across the world: Malaysia, Philippines, India, South Africa, Uganda, Brazil and Argentina. It will look to highlight steps taken in the response to COVID-19, identify progress made and challenges faced and discuss collective opportunities to build upon and continue such efforts in future. Particular focus will be given throughout to the role of scientific advice in pandemics, the acquisition of evidence and methods to link evidence and policy. The workshop will provide a platform for countries to share knowledge of successful approaches, and measures, which have not worked so well, to better support the global response to the pandemic going forwards. To do so, our aims are as follows:

- Bring together evidence from eight low- and middle-income countries from across the world.
- Consider how health systems are responding to the pandemic by discussing key challenges in the provision of effective interventions.
- Consider the role of science in the pandemic response, explore methods of acquiring scientific evidence and evaluate the challenges of getting this evidence into policy in fast-moving environments.
- Based on the evidence, identify gaps in our knowledge and the associated research priorities.
- Consider lessons that can be learned by each country from the other and opportunities to work together.

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# Public health aspects of the COVID-19 pandemic response – 15 June

<b>11:55-12:00</b>	<b>Participants join meeting</b>
<b>12:00-12:05</b>	<p><b>Welcome and introduction to the workshop aims and format</b></p> <p><i>Dr Jaime Montoya, University of the Philippines and Member of the Philippine National Academy of Science and Technology</i></p>
<b>12:05-12:25</b>	<p><b>Group Introductions and current approaches</b></p> <p>Each member of the group will be asked to spend two minutes, along with their national counterparts, introducing themselves and the current 'state of play' with regards to the COVID-19 public health response in their respective countries. These high-level overviews should aim to summarise approaches taken and outcomes so far including methods used to link scientific evidence and policy-making, and touch upon any key barriers and challenges faced in the context of country-specific health systems.</p> <p>The introductory summaries will help to form the basis of the PowerPoint presentation, which will be delivered on day four of the workshop, by the session chair.</p>
<b>12:25-13:10</b>	<p><b>Discussion of challenges, barriers and success stories</b></p> <p>This discussion will consider how health systems are responding to the COVID-19 pandemic, reflect upon any success stories and lessons learned, and discuss the key challenges and barriers in the provision of effective interventions. It will particularly look to explore the role of scientific evidence in a pandemic response, identify the challenges of and methods of acquiring scientific evidence, and approaches to ensure this evidence informs policy such fast-moving environments.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) What do you think were the important public health strategies during the initial and later stages of the pandemic?</li> <li>2) What public health research initiatives should be or were initiated to support the identified strategies for the control of the pandemic?</li> <li>3) What factors facilitated the formulation and adoption of public health research findings into policy during the pandemic?</li> </ol> <p><u>Public Health areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Testing</li> <li>• Surveillance</li> <li>• Hospital, primary and social care (key workers and patients) e.g. PPE</li> <li>• Prevention (social distancing, masks etc.)</li> </ul>

# Public health aspects of the COVID-19 pandemic response – 15 June

<p><b>13:10-13:55</b></p>	<p><b>Identifying knowledge gaps and potential solutions: research priorities, opportunities for collaboration and evidence-based practice</b></p> <p>Building upon the earlier conversations, participants will work together to determine the common gaps in knowledge around COVID-19 based on existing evidence, and the associated public health research priorities to take forwards. Discussions will also look to reflect upon shared solutions and opportunities to work together to address the common challenges and barriers identified.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) How can we provide an enabling environment for appropriate public health research during a pandemic?</li> <li>2) What research initiatives would require collaboration among countries to address remaining public health issues?</li> <li>3) What public health knowledge or research gaps remain to be addressed to sustain the control of COVID-19?</li> </ol> <p><u>Public Health areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Testing</li> <li>• Surveillance</li> <li>• Hospital, primary and social care (key workers and patients) e.g. PPE</li> <li>• Prevention (social distancing, masks etc.)</li> </ul> <p><u>Session Outcome</u></p> <p>By the end of the session, participants should have identified the common challenges, barriers and future opportunities for the public health aspects of the COVID-19 response in LMICs. This should aim to identify potential solutions and the required research priorities to support desired outcomes, and highlight shared learnings to inform future efforts. Outputs should also focus on opportunities to work collectively amongst the countries involved to enhance the global response, and ways in which the UK could support these efforts.</p>
<p><b>13:55-14:00</b></p>	<p><b>Wrap up and summary of key points</b></p> <p><i>Dr Jaime Montoya and Facilitator Ian Jones</i></p> <p>During the closing summary, participants will agree upon the key points and research priorities emerging from the meeting. This will be used to bring together a PowerPoint presentation summarising the discussions, which have taken place, including: public health responses to the COVID-19 pandemic amongst countries in the group; any success stories or shared learnings; current evidence gaps and future research priorities; and opportunities for collaboration between these countries and others to address these gaps.</p> <p>The PowerPoint presentation will be delivered on day four of the workshop.</p>

# Social and behavioural aspects of the COVID-19 pandemic – 16 June

<b>11:55-12:00</b>	<b>Participants join meeting</b>
<b>12:00-12:05</b>	<p><b>Welcome and introduction to the workshop aims and format</b></p> <p><i>Professor Heidi Van Rooyen, Human Resources Research Council and Member of the Academy of Science of South Africa</i></p>
<b>12:05-12:25</b>	<p><b>Group Introductions and current approaches</b></p> <p>Each member of the group will be asked to spend two minutes, along with their national counterparts, introducing themselves and the current 'state of play' with regards to the COVID-19 social and behavioural response in their respective countries. These high-level overviews should aim to summarise approaches taken and outcomes so far including methods used to link scientific evidence and policy-making, and touch upon any key barriers and challenges faced in the context of country-specific health systems.</p> <p>The introductory summaries will help to form the basis of the PowerPoint presentation, which will be delivered on day four of the workshop, by the session chair.</p>
<b>12:25-13:10</b>	<p><b>Discussion of challenges, barriers and success stories</b></p> <p>This discussion will consider how health systems are responding to the COVID-19 pandemic, reflect upon any success stories and lessons learned, and discuss the key challenges and barriers in the provision of effective interventions. It will particularly look to explore the role of scientific evidence in a pandemic response, identify the challenges of and methods of acquiring scientific evidence, and approaches to ensure this evidence informs policy such fast-moving environments.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) What were the important social-behavioural strategies during the initial and later stages of the pandemic that have yielded uptake of preventive public health measures (i.e. testing, gloves and masks, sanitising, social distancing)?</li> <li>2) What social-behavioural interventions should now be initiated to support and encourage adherence to public health measures?</li> <li>3) How have/should these measures be adapted to address the unique social realities of your countries and mitigate the differing impacts of COVID-19 across population groups?</li> <li>4) What factors have facilitated effective evidence to policy pathways in your country during the pandemic?</li> </ol> <p><u>Social behavioural areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Strategies to support adherence to social distancing measures within communities (e.g. bottom-up interventions and tailored approaches to physical distancing practices)</li> <li>• Monitoring and facilitating compliance with personal hygiene measures and guidance amongst healthcare workers in relevant settings (including hospitals and community-care settings)</li> <li>• Identification and protection of vulnerable groups at greatest risk of worsening socio-economic outcomes (including food security, healthcare protection and job-loss concerns)</li> <li>• Strategies to support and monitor appropriate spread of social and behavioural guidance across populations (including managing false or non-evidence based information and monitoring impact of information on mental health)</li> </ul>

# Social and behavioural aspects of the COVID-19 pandemic – 16 June

<p><b>13:10-13:55</b></p>	<p><b>Identifying knowledge gaps and potential solutions: research priorities, opportunities for collaboration and evidence-based practice</b></p> <p>Building upon the earlier conversations, participants will work together to determine the common gaps in knowledge around COVID-19 based on existing evidence, and the associated social and behavioural research priorities to take forwards. Discussions will also look to reflect upon shared solutions and opportunities to work together to address the common challenges and barriers identified.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) What are the social and behavioural research and evidence gaps in the region?</li> <li>2) What is required to ensure greater influence of social and behavioural science in COVID-19 policy responses?</li> <li>3) How can we improve collaboration between countries for meaningful social-behavioural science?</li> </ol> <p><u>Social and behavioural areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Strategies to support adherence to social distancing measures within communities (e.g. bottom-up interventions and tailored approaches to physical distancing practices)</li> <li>• Monitoring and facilitating compliance with personal hygiene measures and guidance amongst healthcare workers in relevant settings (including hospitals and community-care settings)</li> <li>• Identification and protection of vulnerable groups at greatest risk of worsening socio-economic outcomes (including food security, healthcare protection and job-loss concerns)</li> <li>• Strategies to support and monitor appropriate spread of social and behavioural guidance across populations (including managing false or non-evidence based information and monitoring impact of information on mental health)</li> </ul> <p><u>Session Outcome</u></p> <p>By the end of the session, participants should have identified the common challenges, barriers and future opportunities for social and behavioural aspects of the COVID-19 response in LMICs. This should aim to identify potential solutions and the required research priorities to support desired outcomes, and highlight shared learnings to inform future efforts. Outputs should also focus on opportunities to work collectively amongst the countries involved to enhance the global response, and ways in which the UK could support these efforts.</p>
<p><b>13:55-14:00</b></p>	<p><b>Wrap up and summary of key points</b></p> <p><i>Professor Heidi Van Rooyen and Facilitator Ian Jones</i></p> <p>During the closing summary, participants will agree upon the key points and research priorities emerging from the meeting. This will be used to bring together a PowerPoint presentation summarising the discussions, which have taken place, including: social and behavioural responses to the COVID-19 pandemic amongst countries in the group; any success stories or shared learnings; current evidence gaps and future research priorities; and opportunities for collaboration between these countries and others to address these gaps.</p> <p>The PowerPoint presentation will be delivered on day four of the workshop.</p>

# Clinical aspects of the COVID-19 pandemic response – 17 June

<b>11:55-12:00</b>	<b>Participants join meeting</b>
<b>12:00-12:05</b>	<p><b>Welcome and introduction to the workshop aims and format</b></p> <p><i>Professor Rosalind Smyth CBE FMedSci, UCL Great Ormond Street Institute of Child Health; Great Ormond Street Hospital NHS Foundation Trust and Member of the UK Academy of Medical Sciences</i></p>
<b>12:05-12:30</b>	<p><b>Group Introductions and current approaches</b></p> <p>Each member of the group will be asked to spend two minutes, along with their national counterparts, introducing themselves and the current 'state of play' with regards to the COVID-19 clinical response in their respective countries. These high-level overviews should aim to summarise approaches taken and outcomes so far including methods used to link scientific evidence and policy-making, and touch upon any key barriers and challenges faced in the context of country-specific health systems.</p> <p>The introductory summaries will help to form the basis of the PowerPoint presentation, which will be delivered on day four of the workshop, by the session chair.</p>
<b>12:30-13:10</b>	<p><b>Discussion of challenges, barriers and success stories</b></p> <p>This discussion will consider how health systems are responding to the COVID-19 pandemic, reflect upon any success stories and lessons learned, and discuss the key challenges and barriers in the provision of effective interventions. It will particularly look to explore the role of scientific evidence in a pandemic response, identify the challenges of and methods of acquiring scientific evidence, and approaches to ensure this evidence informs policy such fast-moving environments.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) What do you think were the important clinical strategies during the initial and later stages of the pandemic? – <i>How did we learn from effective clinical care practices and implement these in clinical care protocol?</i></li> <li>2) What clinical care interventions should be or were initiated to support the identified clinical care protocols for COVID-19?</li> <li>3) What factors facilitated the formulation and adoption of clinical research findings into policy and guidelines during the pandemic? – <i>How do we identify and integrate best evidence from emerging clinical care findings to inform clinical care guidelines?</i></li> </ol> <p><u>Clinical areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Roll out and coordination of clinical trials in relevant settings during a pandemic</li> <li>• Optimal resource utilisation to monitor and support patients in the community and in hospital settings including intensive care</li> <li>• Optimal strategies depending on available resources including the best use of critical care services</li> <li>• Identification, protection and care provision of those people at greatest risk of poor COVID-19 outcomes</li> </ul>

# Clinical aspects of the COVID-19 pandemic response – 17 June

<p><b>13:10-13:50</b></p>	<p><b>Identifying knowledge gaps and potential solutions: research priorities, opportunities for collaboration and evidence-based practice</b></p> <p>Building upon the earlier conversations, participants will work together to determine the common gaps in knowledge around COVID-19 based on existing evidence, and the associated clinical research priorities to take forwards. Discussions will also look to reflect upon shared solutions and opportunities to work together to address the common challenges and barriers identified.</p> <p>The questions that will be addressed include:</p> <ol style="list-style-type: none"> <li>1) How can we provide an enabling environment to support and facilitate appropriate clinical care (including clinical trials) during a pandemic?</li> <li>2) How could we improve research collaboration among countries to address remaining clinical care issues?</li> <li>3) What are the clinical knowledge or research gaps to sustain the management of COVID-19?</li> </ol> <p><u>Clinical areas of focus:</u></p> <ul style="list-style-type: none"> <li>• Roll out and coordination of clinical trials in relevant settings during a pandemic</li> <li>• Optimal resource utilisation to monitor and support patients in the community and in hospital settings including intensive care</li> <li>• Optimal strategies depending on available resources including the best use of critical care services</li> <li>• Identification, protection and care provision of those people at greatest risk of poor COVID-19 outcomes</li> </ul> <p><u>Session Outcome</u></p> <p>By the end of the session, participants should have identified the common challenges, barriers and future opportunities for the clinical aspects of the COVID-19 response in LMICs. This should aim to identify potential solutions and the required research priorities to support desired outcomes, and highlight shared learnings to inform future efforts. Outputs should also focus on opportunities to work collectively amongst the countries involved to enhance the global response, and ways in which the UK could support these efforts.</p>
<p><b>13:55-14:00</b></p>	<p><b>Wrap up and summary of key points</b></p> <p><i>Professor Rosalind Smyth CBE FMedSci and Facilitator Ian Jones</i></p> <p>During the closing summary, participants will agree upon the key points and research priorities emerging from the meeting. This will be used to bring together a PowerPoint presentation summarising the discussions, which have taken place, including the clinical responses to the COVID-19 pandemic amongst countries in the group; any success stories or shared learnings; current evidence gaps and future research priorities; and opportunities for collaboration between these countries and others to address these gaps.</p> <p>The PowerPoint presentation will be delivered on day four of the workshop.</p>



# Strengthening the COVID-19 pandemic response in LMIC's – 18 June

<b>10:55-11:00</b>	<b>Participants join meeting</b>
<b>11:00-11:05</b>	<p><b>Welcome and introduction to the workshop aims and format</b></p> <p><i>Professor Dame Anne Johnson, Vice President (International), UK Academy of Medical Sciences</i></p> <p><i>Workshop Chair Professor Guy Thwaites FMedSci, Professor of Infectious Diseases; Director, Oxford University Clinical Research Unit (OUCRU), Vietnam</i></p>
<b>11:05-12:35</b>	<p><b>Keynote presentations</b></p> <p><i>Chair: Professor Guy Thwaites FMedSci</i></p> <p>Four keynote presentations will be delivered by speakers directly involved in COVID-19 efforts around the globe. Presentations will focus on different aspects of the COVID-19 response through the lens of their respective expertise.</p> <ul style="list-style-type: none"> <li>• Preparedness and response to the COVID-19 pandemic worldwide           <ul style="list-style-type: none"> <li><b>Professor David Heymann FMedSci</b> – Professor of Infectious Disease Epidemiology, London School of Hygiene and Tropical Medicine</li> </ul> </li> <li>• Research and Development goals for COVID-19 in Africa - The African Academy of Sciences Priority Setting Exercise           <ul style="list-style-type: none"> <li><b>Dr Moses Aloba</b> – Programmes Manager Grand Challenges Africa, The African Academy of Sciences</li> </ul> </li> <li>• Global Solidarity in the COVID-19 response           <ul style="list-style-type: none"> <li><b>Dr Chikwe Ihekweazu</b> – Director General, Nigeria Centre for Disease Control (NCDC)</li> </ul> </li> <li>• TBC           <ul style="list-style-type: none"> <li><b>Dr Margaret Hamburg FMedSci</b> - Foreign Secretary, National Academy of Medicine, USA</li> </ul> </li> </ul> <p>Panel Discussion (30 mins)</p>
<b>12:35-13:50</b>	<p><b>Breakout presentations and group discussion</b></p> <p><i>Chair: Professor Guy Thwaites FMedSci</i></p> <p>This session will bring together all of the evidence, challenges and opportunities identified over the course of the previous three days, and highlight the key messages to take forwards from each of these areas. In particular, it will aim to focus upon shared learnings, research areas to take forwards, and opportunities for countries to support each other in achieving proposed solutions.</p> <ul style="list-style-type: none"> <li>• Public health group</li> <li>• Social and behavioural group</li> <li>• Clinical group</li> </ul> <p>Group discussion (30 mins)</p> <p><u>Session outcome</u></p> <p>The output from this session will be identification of common learnings, actions and priority research areas to take forwards in participants' respective countries, and opportunities to work together amongst the countries involved to better support the global response to the COVID-19 pandemic. These will be jointly owned by all workshop participants along with agreement that they will be actioned upon their return to their home country.</p>
<b>13:50-14:00</b>	<p><b>Conclusions and wrap up</b></p> <p><i>Professor Guy Thwaites FMedSci, Professor of Infectious Diseases; Director, Oxford University Clinical Research Unit (OUCRU), Vietnam</i></p>

# Workshop Chair Biographies

## Workshop Chair: **Professor Guy Thwaites** **FMedSci,**

Professor of Infectious Diseases; Director, Oxford University Clinical Research Unit (OUCRU), Vietnam



### **Biography**

Guy has been Director of the Oxford University Clinical Research Unit (OUCRU) and Vietnam Wellcome Africa Asia Programme (AAP) since 2013. He qualified from Cambridge University and the United Medical and Dental schools of Guy's and St Thomas' Hospitals and trained in Infectious Diseases and Microbiology in Brighton, OUCRU in Vietnam, Imperial College London, and the Hospital for Tropical Diseases in London. His research interests focus on the management of severe bacterial infections, especially those involving the central nervous system. He sits on advisory boards for the WHO and the Australian and UK governments. He was elected a Fellow of the Academy of Medical Sciences in the UK in 2018.

## Public Health Group Chair: **Dr Jaime Montoya**

University of the Philippines and Member of the Philippine National Academy of Science and Technology



### **Biography**

Dr Montoya, has spent more than twenty years working on infectious diseases and public health. He is a highly trained Infectious Disease Specialist with MSc and Diploma in Clinical Tropical Medicine from the London School of Hygiene and Tropical Medicine and the Royal College of Physicians London respectively, MSc in Bioethics from the University of the Philippines and a PhD in Medicine from the Juntendo University School of Postgraduate Medicine, Tokyo, Japan. He holds a Doctor of Medicine degree from the University of the Philippines. He is also a public health expert with extensive experience in program implementation of tuberculosis control and control of emerging infections through several years of consultancy work at the Department of Health particularly during the SARS epidemic in 2003 and as a consultant for emerging infections of the WHO Western Pacific Region. As an international expert, he successfully formed the ASEAN Network for Drugs, Diagnostics and Vaccines Innovation (ASEAN-NDI) with the help of ASEAN and WHO-TDR. He is a recipient of numerous awards in the fields of medical research, education, medical writing, medical society leadership and community service. At present, he is the Executive Director of Philippine Council for Health Research and Development - Department of Science and Technology (PCHRD-DOST, the national coordinating body for health research in the country. He is also a Professor of Internal Medicine and Infectious Diseases at the University of the Philippines Manila College of Medicine.

# Workshop Chair Biographies

## Behavioural/Social Group Chair: **Professor Heidi Van Rooyen**

Human Resources Research Council and Member of the Academy of Science of South Africa



### Biography

Professor Heidi van Rooyen is the Group Executive of the Impact Centre at the Human Sciences Research Council in South Africa. Prior to that, she led a multidisciplinary research group interested in the development of individuals over the life course with a focus on how diversity relating to race, gender and sexuality influence our lives. Heidi is a psychologist, social scientist and an accomplished and internationally recognized scholar. For more than two decades her work has addressed HIV risks and vulnerabilities as well as the broader contexts and inequalities that shape this risk. Her current research focuses on the influence of sexual orientation and gender identity as social determinants of health, and issues of race and identity. Heidi is a certified life coach who balances the demands of leadership, publishing and grant writing with a regular contemplative writing practice and poetry.

## Clinical Group Chair: **Professor Rosalind Smyth CBE FMedSci**

Director, UCL Great Ormond Street Institute of Child Health  
Honorary Consultant Respiratory Paediatrician, Great Ormond Street Hospital NHS Foundation Trust



### Biography

Rosalind Smyth is Director of the UCL Great Ormond Street Institute of Child Health, and Honorary Consultant Respiratory Paediatrician at Great Ormond Street Hospital NHS Foundation Trust. She graduated in medicine from Clare College, Cambridge and Westminster Medical School and trained in paediatrics in London, Cambridge and Liverpool. Until September 2012, she was Professor of Paediatric Medicine in at the University of Liverpool and, from 2005-2012, was Director of the NIHR Medicines for Children Research Network, which supported all clinical research with children in England. She was a member of the UK MHRA's Commission on Human Medicines Committee 2009-13 and chaired its Paediatric Medicines Expert Advisory Committee (2002-13). Rosalind's research interests include cystic fibrosis, clinical trials and respiratory virus infections.

Rosalind is a Fellow and previous council member of the Academy of Medical Sciences and has a number of national roles in academic training and careers. She is a member of the AMS Mentorship Advisory Committee since 2015, a judge and organiser at AMS Spring and Winter Meetings since 2014. She is Chair of the MRC's Clinical Training and Careers Committee and the AMS Starter Grants Panel. She is a governor of the Health Foundation and a Trustee of the UK Cystic Fibrosis Trust. She chairs the External Advisory Board of the Murdoch Children's Research Institute (Melbourne) and is a member of the Scientific Advisory Board of the Research Institute of SickKids Hospital, Toronto. She was awarded Commander of the Order of the British Empire in the Queen's New Year's Honours List in 2015 for services to the regulation of medicines for children.

# Speaker Biographies

## Professor David Heymann FMedSci

UK



### Biography

David Heymann holds a BA in general science from Penn State University, an M.D from Wake Forest School of Medicine, and a DTM&H from London School of Hygiene and Tropical Medicine (LSHTM). He is currently Professor of Infectious Disease Epidemiology at LSHTM and Head of the Centre on Global Health Security at Chatham House, London. From 2012 - March 2017 he was chairman of Public Health England. For 22 years Heymann was based at the World Health Organization (WHO) in Geneva on secondment from the Centers for Disease Control and Prevention (CDC) during which time he rose from Chief of Research of the Global Programme on AIDS to Founding Director of the Programme on Emerging and other Communicable Diseases. He then was named Executive Director of the Communicable Diseases Cluster, a position from which he headed the global response to SARS, and finally was named Assistant Director for Health Security and the Director General's Representative for Polio Eradication. Before joining WHO Heymann was based for 13 years in sub-Saharan Africa on assignment from CDC where he worked Cameroon, Cote d'Ivoire, DRC and Malawi. During this period he participated in the response to the first, second and third outbreaks of Ebola hemorrhagic fever in DRC, investigated human monkeypox outbreaks throughout central and western Africa, and supported ministries of health in field research aimed at better control of malaria, measles, tuberculosis and other infectious diseases. Prior to joining CDC Heymann worked in India for two years as a medical epidemiologist in the WHO smallpox eradication programme. David is an elected fellow of the Institute of Medicine of the National Academies (US) and the Academy of Medical Sciences (UK), and has received seven different public health awards, including the Heinz Award on the Human Condition, that have provided funding for the establishment of an on-going mentorship programme at the International Association of Public Health Institutes (IANPHI). He has published over 200 peer reviewed articles, commentaries and book chapters, and is the editor of the *Control of Communicable Diseases Manual*, a major global reference for public health and health protection. In 2009 he was appointed an honorary Commander of the Most Excellent Order of the British Empire (CBE) for service to global public health.

## Dr Moses Alobo

Kenya



### Biography

Dr Moses Alobo leads at the Africa Academy of Sciences the Grand Challenges Africa Programme, the innovation and entrepreneurship pillar at the African Academy of Sciences. He has over 15 years' experience leading fundraising efforts and delivering global health interventions and innovations. His previous posting was a key interface between the African Research Centres and GSK's Africa NCD Open Lab where he supported scientists to design and conduct locally relevant research proposals, their associated technology transfer, and capacity strengthening in NCD research. Moses has experience in implementing research in resource-limited settings in the fields of vaccinology, oncology, antibiotics resistance, HIV, leishmaniasis, asthma, breast cancer, and renal anaemia. He has worked for GSK, Hoffman La Roche, and Drugs for Neglected Diseases Initiative.

Moses has not only implemented quality health management and research projects in 14 different countries in Sub-Saharan Africa but is also a social entrepreneur. He delivers to patient's much-needed health programs and health research grounded in best practice by using evidence-based medicine to solve current public health problems. He has been awarded the Archbishop Desmond Tutu African Leadership fellowship in 2014, the EU Contact Point Network for Young African Scientists.

# Speaker Biographies

## Dr Chikwe Ihekweazu

Nigeria



### Biography

Dr Chikwe Ihekweazu is the Director General of the Nigeria Centre for Disease Control (NCDC) and was until January 2018, the Acting Director of the Regional Centre for Disease Control for West Africa. Dr Ihekweazu trained as an infectious disease epidemiologist and has over 20 years' experience working in senior public health and leadership positions in several National Public Health Institutes, including the South African National Institute for Communicable Diseases (NICD), the UK's Health Protection Agency, and Germany's Robert Koch Institute (RKI). Dr Ihekweazu has led several short-term engagements for WHO, mainly in response to major infectious disease outbreaks around the world including the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19) in February.

## Dr Margaret Hamburg FMedSci

USA



### Biography

**Margaret Hamburg, MD** is the former Commissioner of the U.S. Food and Drug Administration, having stepped down from that role in April 2015 after almost six years of service.

Dr Hamburg earned her B.A. from Harvard College, her M.D. from Harvard Medical School and completed an Internal Medicine residency at Weill Cornell Medical Center. Following completion of her formal medical training, Dr Hamburg went to Washington to explore the world of health policy. She soon took on a role as Assistant Director of the National Institute of Allergy And Infectious Diseases (NIAID) of the National Institutes of Health (NIH). In 1997, President Clinton named Dr Hamburg Assistant Secretary for Planning and Evaluation in the U.S. Department of Health and Human Services. She later became founding Vice President for Biological Programs at the Nuclear Threat Initiative, a foundation dedicated to reducing the threat to public safety from nuclear, chemical, and biological weapons. In March 2009, President Obama nominated Dr Hamburg for the post of FDA Commissioner. In that role, Dr Hamburg emphasized the critical need for innovation in meeting medical care and public health needs. As Commissioner, she provided leadership on many groundbreaking activities, including: new authority to regulate tobacco products; implementation of the Food Safety Modernization Act designed to transform food safety to a preventive system rather than simply responding when outbreaks occur; and modernization of the system for the evaluation and approval of medical products. Dr Hamburg also worked hard to reposition FDA as an agency prepared for the challenges of globalization and was very active in efforts to establish new mechanisms for global governance of regulatory systems, including enhanced communication, collaboration and regulatory harmonization.

Dr Hamburg is a Fellow of the American Association for the Advancement of Science and the American College of Physicians, as well as a member of the Council on Foreign Relations and the Institute of Medicine, National Academy of Sciences, where she now serves as Foreign Secretary.

# Public Health Group



Chair: Jaime Montoya,  
Philippines



Secretariat Lead: Alex  
Hulme, International Policy  
Manager, Academy of  
Medical Sciences



IT Lead: Abigail Bloy,  
International Policy Officer,  
Academy of Medical Sciences



Facilitator: Ian Jones



Luiz H Mandetta, Brazil



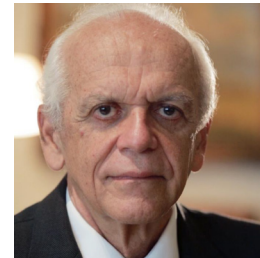
Quarraisha Abdool Karim,  
South Africa



Ibrahim Abubakar, UK



Awang Bulgiba Awang  
Mahmud, Malaysia



Rubens Belfort Jr, Brazil



Vicente Belizario, Jr,  
Philippines



Roberto Chuit, Argentina



Azra Ghani, UK



Noran N Hairi, Malaysia



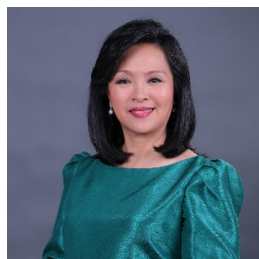
Karen Hofman, South Africa



Gagandeep Kang, India



Jorge Daniel Lemus,  
Argentina



Carmencita Padilla,  
Philippines



Ramesh V Penumaka, India



Tim Tucker, South Africa



Denisar Vianna, Brazil

# Public Health Participant Biographies

## Quarraisha Abdool Karim

South Africa



### Biography

Quarraisha Abdool Karim is a South African infectious diseases epidemiologist. She is the Associate Scientific Director of the CAPRISA (Centre for the AIDS Programme of Research in South Africa), professor in Clinical Epidemiology at Columbia University; and Pro-Vice Chancellor for African Health at the University of KwaZulu-Natal. She is UNAIDS Special Ambassador for Adolescents and is a Member of the USA National Academy of Medicine and Fellow of: The World Academy of Science; African Academy of Science and the Academy of Science of South Africa. Her over 200 peer reviewed publications, books and book chapters contributions spans over three decades of research that has been widely recognized and includes the Order of Mapungubwe (the highest honour in South Africa), L'Oreal-UNESCO for Women in Science Award for Africa and the Middle East region; the ASSAf Science for Society Gold medal; the 2020 John Dirk-Gairdner Global Health Award and the 2020 Christophe Merieux Award.

## Ibrahim Abubakar

United Kingdom



### Biography

Professor Ibrahim Abubakar (MBBS, DPH, MSc, PhD, FFPH, FRCPE, FRCP, FMedSci) is Director of the University College London Institute for Global Health, honorary Consultant at Royal Free Hospital and Public Health England, NIHR Senior Investigator and honorary professor at LSHTM. He is chair of Lancet Migration, Wellcome Trust Population Health Expert Group, and the UK National Institute for Clinical Excellence guideline development group for diabetes, board member of the Open Society Foundations public health programme and the MRC Global Health Board. He was chair of the Scientific and Technical Advisory Group for TB. His global health research interests combine health system and policy and a focus on the epidemiology and control of diseases affecting vulnerable populations. He has published over 300 peer reviewed papers, several book chapters and edited two textbooks (On Infectious Disease Epidemiology and Migration and Health).

## Awang Bulgiba Awang Mahmud

Malaysia



### Biography

Prof Dr Awang Bulgiba Awang Mahmud is currently Secretary-General for the Academy of Sciences Malaysia (Malaysia's foremost science think tank), Council Member for the Academy of Medicine Malaysia, Chair of Malaysia's National Specialist Register Specialty Sub-Committee (Public Health) and President of APACPH-KL, the Malaysian chapter for APACPH (Asia-Pacific Academic Consortium for Public Health). Currently, he is leading a national taskforce called CEASe (COVID-19 Epidemiological Analysis and Strategies) which is advising the Malaysian government on analysis and strategies to combat the COVID-19 pandemic. Prof Awang Bulgiba is an Associate Editor for the Asia-Pacific Journal of Public Health and has published more than 100 Web of Science-indexed articles. In 2018, he was a recipient of the APACPH Excellence in Leadership Medallion.

# Public Health Participant Biographies

## Rubens Belfort Jr

Brazil



### Biography

Graduated in Medicine at Escola Paulista de Medicina (1970), Master in Microbiology Immunology and Parasitology at Escola Paulista de Medicina (1978), PhD in Ophthalmology at Federal University of Minas Gerais (1981) and PhD in Microbiology and Immunology at Escola Paulista de Medicina (1985). Full Professor and Full Professor of Ophthalmology at Escola Paulista de Medicina, UNIFESP, President of IPEPO. Former President of the Administrative Council of the Paulista Association for the Development of Medicine (SPDM), the Pan American Association of Ophthalmology and the World Ophthalmology Congress (SP). Titular Member of the National Academy of Medicine, Brazilian Academy of Sciences, Academy Ophthalmologica Internationalis, National Academy of Pharmacy and Brazilian Academy of Ophthalmology (President). Researcher 1A CNPq. Titular member of the National Council of Sciences and Technology. Ocular Geriatrics (Macula, Glaucoma, Cataract, etc.). Ocular Epidemiology, Ocular Immunopathology, Uveitis, Toxoplasmosis.

## Vicente Belizario, Jr.

Philippines



### Biography

Dr. Vicente Belizario, Jr. is currently Professor and Dean of the College of Public Health, University of the Philippines (UP) Manila, Director of the SEAMEO TROPED Regional Centre for Public Health, and Adjunct Professor of Global Health in the University of Pittsburgh School of Medicine. He is University Scientist III of the UP System and has done research on control of tropical parasitic infections, with research outputs featured in over 90 peer-reviewed scientific publications, a number of which have provided basis for formulation of global and national policy and practice guidelines. A Doctor of Medicine with postgraduate training in Tropical Medicine and Public Health, he was former Vice Chancellor for Research and Executive Director of the UP National Institutes of Health. After a short stint at the World Health Organization Regional Office for the Western Pacific as Technical Officer for NTDs, he served as Undersecretary for Technical Services of the Department of Health of the Philippines.

## Roberto Chuit

Argentina



### Biography

Academician of the National Academy of Geography (Chair); Corresponding National Member of the Academy of Medical Sciences of Córdoba State; DrPh Public Health / Epidemiology (Yale University, USA); PhD of Medicine and Surgery (Universidad Nacional de Córdoba); Diploma (MPH) in Public Health (National University of Córdoba - UNC); Physician (UNC); Assistant Professor of Preventive and Social Medicine (UNC).. Minister of Health (Cordoba State); Secretary of Health (Cordoba State); Chief of Staff, Ministry of Health (Buenos Aires State); Epidemiology National Director (by open competition, National Ministry of Health, Argentina); Director of Epidemiology (Cordoba State); PAHO/WHO Regional Advisor on Emerging and Reemerging Diseases. Author, co-authored in more than 100 scientific articles in peer-reviewed journals (communicable diseases, chronic diseases, epidemiology, public health). Author/co-author of 11 books including. Executive Director of the Epidemiological Research Institute, National Academy of Medicine.



# Public Health Participant Biographies

## Azra Ghani

United Kingdom



### Biography

Professor Azra Ghani is an infectious disease epidemiologist in the MRC Centre for Outbreak Analysis & Modelling at Imperial College London where she heads the malaria modelling research group. Her group's research takes a biological approach to constructing models to better understand the transmission dynamics of malaria both within the human and vector hosts and between hosts. From a public health perspective, the models are used to inform policies on how, where and when to implement different interventions against malaria to aid local elimination, and eventual eradication, of the parasite. Much of this work is collaborative with a wide range of public health agencies.

## Noran N Hairi

Malaysia



### Biography

Noran N Hairi is a Professor of Epidemiology in the Social and Preventive Medicine Department. She studied medicine at the University of Malaya and obtained her PhD degree from the School of Public Health, University of Sydney. Currently, Noran is a member of a national taskforce called CEASE (COVID-19 Epidemiological Analysis and Strategies) which is advising the Malaysian government on analysis and strategies to combat the COVID-19 pandemic. She is also an expert panel in the University of Malaya's COVID19 Evidence Retrieval Service (CERS). She contributes to the development of Selangor State Standard Operating Procedures (SOP) for Return to Work after the Movement Control Order for COVID-19 Infection. She has research interests in the epidemiology of ageing and ageing-related diseases. Noran is currently the Principal Investigator for UM Grand Challenge Research Grant on Prevent Elder Abuse and Neglect Initiative (PEACE) and has published more than 60 Web of Science-indexed articles.

## Karen Hofman

South Africa



### Biography

Research Professor and Founding Director of the SAMRC/Wits Centre for Health Economics and Decision Science at the University Of Witwatersrand, Karen Hofman is a qualified Paediatrician. She was previously on faculty at Johns Hopkins and served as Director of the Policy at the US NIH Fogarty Center before returning to SA. Since 2009, Prof Hofman has lead a multidisciplinary research team showing where SA can gain the biggest return on investment for health both within the health system and across other sectors. She has served on several ministerial committees, is an author on more than 100 journal manuscripts and chapters and regularly engages with the media. As a member of ASSAf she served as the South African Foreign Secretary for Health on the IAMP and is a member of the ASSAf Health Committee. In 2016 she received the Public Health Association of South Africa (PHASA) Annual PHILA Award.

# Public Health Participant Biographies

## Gagandeep Kang

India



### Biography

Professor Kang is the Executive Director, Translational Health Science Technology Institute (THSTI), an autonomous institute of the Department of Biotechnology (DBT). Prior to joining DBT, Professor Kang was Professor and Head of the Wellcome Trust Research Laboratory, and the Division of Gastrointestinal Sciences at the Christian Medical College (CMC) in Vellore.

Professor Kang has built a strong inter-disciplinary research program that uses careful and detailed field epidemiology with molecular tools for characterization of infectious agents and host response to infection to understand and change factors that affect transmission, development and prevention of enteric infections and their sequelae. Observational, interventional and mechanistic studies on enteric infection and nutrition have demonstrated the complex relationships between gut function and physical and cognitive development. Based first at an outstanding medical college and now at the THSTI, she has established a strong training program for students and young faculty in clinical translational medicine.

## Jorge Daniel Lemus

Argentina



### Biography

Physician, PhD in Medicine and Public Health. He has served as Hospital Director, Director General, Undersecretary of State, Minister of Health of the City of Buenos Aires (2005) and Argentine Nation (2015). Professor of Public Health and Head of the Department at the University of Buenos Aires, Emeritus Professor of Epidemiology at the Universidad del Salvador, Professor of Public Health and Director of the Master's Degree in Health Services at UCES. Scientific Director of the Institute of Epidemiological Research of the National Academy of Medicine. RESEARCHER at CONICET and Principal Investigator of the UBA. He served as Vice-Chair of the WHO Executive Board, and the Chair of the Executive Board of PAHO's Board of Directors. Co-Chair of the G20 Meeting of Health Ministers (Berlin, 2017).

## Carmencita Padilla

Philippines



### Biography

Dr. Padilla is Professor of Pediatrics and Academician of the National Academy of Science and Technology. Prior to her current position as Chancellor of the University of the Philippines Manila, she held various positions: Institute of Human Genetics (Founding Director), Newborn Screening Reference Center (Founding Director), Philippine California Advance Research Institutes (Interim Director for Health Innovation and Translational Medicine), Philippine Genome Center (Director), Asia Pacific Society for Human Genetics (President), International Society for Neonatal Screening (Vice President). Dr Padilla is Council Member of Human Genome Organization and Philippine representative to the InterAcademy Partnership (Health). She is responsible for the national newborn screening services in 7000+ health facilities as a result of her engagement in the passage of the Newborn Screening Act of 2004 (Republic Act 9288). She is also responsible for the lobby efforts and eventual passage of the Rare Disease Act of 2016 (Republic Act 10747).

# Public Health Participant Biographies

## Ramesh V Penumaka

India



### Biography

Ramesh is a physician turned international development professional with thirty-six years of leadership experience of government, international institutions, and corporate enterprises with sizeable financial, material and human resources in countries across India, Asia-Pacific, West Asia, Arab States, East and Southern Africa regions, and UNOPS / UNFPA headquarters in New York, and IFAD in Rome. He has effectively executed programmes and managed organisations/ministries with accountability exceeding US\$35 billion annually.

## Tim Tucker

South Africa



### Biography

Tim is founder and CEO of the public health organization, SEAD Consulting. In addition, he is an adjunct professor at the University of Cape Town School of Public Health and Family Medicine. Tim is a public health strategist, with a track record in HIV, hepatitis, vaccines and public health programs in Africa and beyond. He is a registered Clinical Virologist. He has obtained his medical degree, his Ph.D. and pathology specialization at UCT. Tim has served on multiple healthcare organization boards over the years, and is currently a member of the SA Medical Research Council Board, NHLS Research Trust Board, and is a member of the US Government National Institutes of Health HIV Strategy Working Group. He served as a member of the National Health Laboratory Service Board for 7 years until December 2019.

## Denizar Vianna

Brazil



### Biography

Associate Professor at the State University of Rio de Janeiro.  
Former Head of Science and Technology from Ministry of Health.

# Social and Behavioural Group



Chair: Professor Heidi Van Rooyen, South Africa



Secretariat lead: Fern Brookes, International Policy Officer, Academy of Medical Sciences



IT lead: Alex Hulme, International Policy Manager, Academy of Medical Sciences



Facilitator: Mr Ian Jones



Marcello Barcinski, Brazil



Paulo Buss, Brazil



Christie Cabral, UK



Marita Carballo, Argentina



Tim Chadborn, UK



Nurashikin binti Ibrahim, Malaysia



Surinder Jaswal, India



Oommen John, India



Helen Lambert, UK



Julian May, South Africa



Priscilla Reddy, South Africa



Alberto Riva Posse, Argentina

# Social and Behavioural Group

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Agnes Rola, Philippines



Michael Tan, Philippines



Eliane Ubalijoro, Rwanda



Merlin Willcox, UK



Raudah Yunus, Malaysia

# Behavioural Participant Biographies

## Marcello Barcinski

Brazil



### Biography

Graduated in medicine from the State University of Rio de Janeiro (1965) and doctorate in Biological Sciences (Biophysics) from the Federal University of Rio de Janeiro (1974). Visiting Specialist at the Oswaldo Cruz Institute in Rio de Janeiro and Professor Emeritus at the Federal University of Rio de Janeiro.

Created the Experimental Medicine Division and the Post-Graduation in the National Cancer Institute. Has experience in the area of Biophysics and Immunology, especially in Cellular Immunology. Works mainly in the areas of immuno-parasitology and translational medicine with an emphasis on the effects of cell death programmed by apoptosis. He created the concept of "apoptotic mimicry" demonstrating for the first time that the attenuation of the immune response by mechanisms of apoptosis in single-cell pathogens (*Leishmania spp*) has an important role in the establishment of parasitic diseases. The same mechanism also operates in the establishment of tumors. He is a full member of the National Academy of Medicine of Brazil and of the Brazilian Academy of Sciences.

## Paulo Buss

Brazil

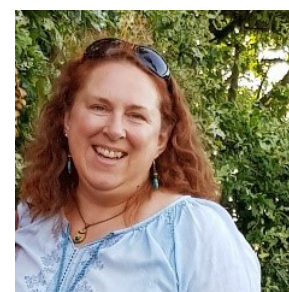


### Biography

Paulo M. Buss, MD, MPH has been a professor in the National School of Public Health at the Oswaldo Cruz Foundation (FIOCRUZ) since 1977. Currently he is Director of the FIOCRUZ Centre for Global Health. In 2001, he was appointed as President of FIOCRUZ (2001-2008). He was elected twice a Director of FIOCRUZ National School of Public Health (1989-1992 and 1998-2000). Dr Buss was President of the Latin American and Caribbean Association of Public Health Education (1998-2000) and of the World Federation of Public Health Association (WFPHA) (2008-2010). He Founded (in 1979) and was the first Executive Secretary of the Brazilian Association of Collective Health (ABRASCO) (1979-1983). From March 2006 to March 2008, he served as Chair of the Brazilian Commission on Social Determinants of Health. He is a Full Member of the National Academy of Medicine and has represented Brazil on the Executive Board of the WHO (2004-2007 and 2008-2011).

## Christie Cabral

UK



### Biography

Christie Cabral is a social anthropologist working in primary care and global health. Christie has worked on health and international development research for over 20 years. Her recent research has focussed on the management of infectious disease and antimicrobial stewardship (in UK and China). She is currently involved in Covid-19 research looking at primary care responses in China and impacts on pregnant women in the UK. She has conducted research in LMIC including China, Guyana, Uganda, South Africa, Niger and India.

# Behavioural Participant Biographies

## Marita Carballo

Argentina



### Biography

President Social and Political Academy of Argentina; President World Association of Public Opinion (WAPOR); President Voices (Research and Consultancy); Vice President Scientific Executive Committee of the World Values Survey (WVS); Vice President of Comparative Sociology Committee of the International Sociological Association (ISA). Academic Numerary Argentine National Education Academy. Marita was President Kantar Latin America (2009-2012). Global Head of TNS Political and Social sector -based in London- where she played a key role on large- scale surveys, notably the Eurobarometer (2003-2008). President Gallup Argentina from 1979-2001. Honorary Member Gallup International (2003). Eisenhower Fellow (1988). Award leading Women granted by the Argentine Senate (2000).Head Sociology Department (1989-2002) Catholic University Argentina and Professor of Sociology and Politics. She is a renowned person in the academy and in the Political and Social area worldwide. She has published several books and many articles in newspapers and academic journals. Her last books "Happiness of Nations" (2015) and "God in Modern Times" (2019).

## Tim Chadborn

UK



### Biography

'Dr Tim Chadborn is Head of Behavioural Insights and Evaluation Lead at Public Health England and Expert Advisor to the Systems Unit of the Cabinet Office. He is a co-author of the UK Government's updated guide to evaluation, the Magenta Book, and member of the Cross-Government Evaluation Group, the Cross-Government Behavioural Science Network, and the Cabinet Office Trials Advice Panel. With about 25 years of experience in health he has previously worked in the UK with the Department of Health and Health Protection Agency and internationally in a partnership between Harvard University and the Ministry of Health in Botswana and with the London School of Hygiene and Tropical Medicine. He is President of the UK Evaluation Society.

## Nurashikin binti Ibrahim

Malaysia



### Biography

Dr Nurashikin Ibrahim, a medical doctor and Public Health Medicine Specialist received her undergraduate training from University of Malaya. Has been working in the Ministry of Health for past 25 years. Currently she holds the post as Public Health Physician and Sector Head of Mental Health, Substance Abuse and Violence Injury Prevention, Disease Control Division, Ministry of Health. She has been involved in mental health for the past 16 years. Her areas of expertise/knowledge are in Mental Health Promotion Mental Health Services and Psychosocial Support Disaster and Suicide Prevention upon which she received training in Psychosocial Response to Disaster from Hyogo Institute of Traumatic Stress, (HITS) Japan as well as training in Mental Health Promotion & Mental Illness Prevention from Hunter Institute of Mental Health, Australia and Suicide Prevention from AISRAP, Australia. She is also responsible as Head Coordinator of the Mental Health and Psychosocial Support Services of Ministry of Health in response to the COVID-19 outbreak in Malaysia. Also has been involved at the field in many of crisis that has occurred in Malaysia; among them, the unprecedented incident of air tragedy of MH370 and MH17 in 2014, massive flood tragedy between Dec 2014 - March 2015, pre-deployment and post-deployment for Malaysian field Hospital Cox's Bazar for Humanitarian Mission for Rohingya's, Oct 2017 and chemical waste poisoning tragedy in Feb 2019. Involved in providing training and mentoring on areas of mental health and mental health in disaster for health care providers and also training for other govt and non-governmental agencies. She participates actively in various activities and several NGOs at community level, advocates mental health in various media and has written mental health articles for several magazines. Also known to family members and friends as Dr Ann, her passion is in reading, hiking and singing. She is now very much involved in performances and emceeing various functions.

# Behavioural Participant Biographies

## Surinder Jaswal

India



### Biography

Professor Surinder Jaswal, MA (TISS), Ph.D (LSHTM, London University) has taught at the TISS since 1988. Prior to her current appointment as Deputy Director and Dean, Research and Development she was Dean School of Social Work. She is also the Associate, Editor of the Indian Journal of Social Work –an international indexed journal, established in 1940. She has initiated and led several field action projects such as The Thane Health Project, and Aarohi, working on urban health and development. She has also been the project director of the Andaman and Nicobar Islands project working on enhancing the livelihoods of the Nicobarese, post the 2004 Tsunami and project director and advisor on 26/11 Terror Attacks in Mumbai. She is a keen researcher and has been the Principal Investigator of over 25 research studies. She has also published widely on issues ranging from Adolescent Health, Reproductive and Sexual Health, Women’s Health, Mental Health and Development, Disasters and Psycho-social Care and Support, Sustainable Rural Livelihoods, Migration and Development, and Conflict and Peace. She is on several national and international research, scientific and ethics committees as well as on the board of universities and civil society organizations.

## Oommen John

India



### Biography

Oommen John is specialized in Internal Medicine and Business Management. He leads a programme of research at George Institute India that involves designing and implementing health systems strengthening interventions and community led co-design approaches for primary care. His interests and expertise are in areas of applying design thinking, developing and evaluating scaling up of health innovations in resource limited settings. He serves in advisory capacity to World Health Organization on health information systems and is a member of the WHO Digital Health Guidelines Development Group; He is the secretary of the Asia Pacific Association for Medical Informatics, serves on the International Advisory Board of the Commonwealth Centre for Digital Health and Foundation for Innovative Diagnostics, Geneva.

## Helen Lambert

UK



### Biography

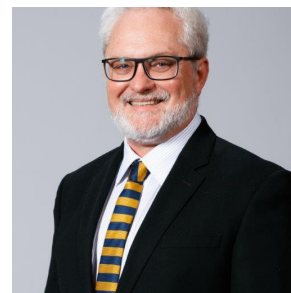
Helen Lambert is Professor of Medical Anthropology in the Department of Population Health Sciences, Bristol Medical School and UKRI Challenge Leader for Health at the Global Challenges Research Fund. Her research expertise includes sociocultural aspects of health and healthcare, infectious disease and AMR, qualitative research methodologies, and design of interdisciplinary global health research. She has extensive ethnographic and social science research experience in Asia on issues including HIV prevention and ART, medical pluralism and treatment-seeking, informal care provision, public understanding, and suicide prevention. She leads a Newton Fund UK-China AMR Hub and provides social science input on a MRC-DHSC COVID-19 study evaluating public adherence to government guidelines and a GCRF project investigating One Health drivers of AMR in Thailand. She sits on WHO’s STAG-AMR and various funding panels including UKRI GCRF/Newton Fund Agile Response to COVID-19; DHSC/UKRI Global Effort on COVID-19; MRC Applied Global Health Research; and NIHR Global Health Research.



# Behavioural Participant Biographies

## Julian May

South Africa



### Biography

Julian May is Director of the Centre of Excellence in Food Security at the University of the Western Cape and holds the UNESCO Chair in African Food Systems. He is an economist with a PhD in Development Studies. He has worked on options for poverty reduction including land reform, social grants, information technology and agriculture throughout Africa and in the Indian Ocean Islands. His current research focuses on food security, childhood deprivation and malnutrition. He has edited 6 books and published over 80 papers in books and academic journals. He has been an associate researcher at Oxford University, the University of Bergen, the University of Manchester and the International Food Policy Research Institute; and a visiting researcher at the London School of Hygiene and Tropical Medicine, Université de Paris and Vrije Universiteit-Amsterdam. He chairs the 'Science for the Reduction of Poverty and Inequality' standing committee of the Academy of Science in South Africa.

## Priscilla Reddy

South Africa



### Biography

Priscilla Reddy is a socio-behavioural and health promotion research scientist currently leading the public experience research response of the public to COVID-19 on behalf of the South African Human Sciences Research Council (HSRC). Outcomes from these large studies have guided the national government leadership response to strategy and policy formulation. Ongoing studies continue to inform the response as the country's infection trajectory continues to present the nation with a myriad of complex decisions. She has published widely in peer-reviewed journals, served on editorial boards and policy think tanks. Her work in the African region spans more than 26 years, focusing on critical public health interventions like smoking cessation programs, youth behavior risk behaviour reduction, HIV and AIDS and related human rights and health issues – ensuring that her research reflects the need of the environment within which she operates. She has promoted 15 PhD graduates through Maastricht University – academics who now provide much needed research expertise to the African public health sector.

## Alberto Riva Posse

Argentina



### Biography

Medical Doctor – MD - University of Buenos Aires – Argentina; Register of Health Professional Number: 32.788; Member of the National Academy of Medicine Argentina (Nº25); Specialist in Psychiatry Special training in Medical Psychology – U B. A.- Medical Psychiatric Residency and Chief Resident - University of Buenos Aires - Clinical University Hospital 1968 -1970 Subspecialty training in Adolescent and Adult Psychiatry - U B A (Full Teaching Career - Medical Psychology) UNIV BS AS; Professor of Department of Neuroscience – (2003- 2007);Universidad Favaloro; Professor Master of Psychoimmunoneuroendocrinology; Universidad Favaloro (1995 - 2003);Professor Master of Psychoimmunoneuroendocrinology – Universidad Austral (2007 – 2017); Mental Health professor – Psychiatry Favaloro University (2012 - 2016);Currently involved in activities at universities and care centres. Member of the Argentine Association of Psychiatrists; Emeritus Member of the Royal College of Psychiatrists - INTL; International Distinguished Fellowship of the American Psychiatric Association; Member of the Asociacion Medica Argentina.

# Behavioural Participant Biographies

## Agnes Rola

Philippines



### Biography

Agnes Rola is Professor Emeritus at the Institute for Governance and Rural Development, University of the Philippines Los Baños (UPLB), Philippines. She has degrees in Statistics (BS) and Agricultural Economics (MS, PhD); and has 35 years' research experience in sustainable agriculture and natural resources management. Her early work was an economic investigation of pesticides and rice farmers' health. Her recent research centered on understanding the linkages among food security, water security and climate change. She has authored 130 scientific publications, on the economics, policy and institutional aspects of agricultural sustainability. She mentors graduate students and younger faculty members and research staff in universities and other public and private sector agencies in the Philippines and abroad, in the fields of data and policy analysis and research methods. She was elected to the National Academy of Science and Technology-Philippines (NAST PHIL) - Social Sciences Division in 2011.

## Michael Tan

Philippines



### Biography

Michael L. Tan is a veterinarian and a medical anthropologist. He is currently Professor Emeritus with the Department of Anthropology, University of the Philippines Diliman and Clinical Professor, College of Medicine, University of the Philippines Manila. His areas of research have been in popular medical culture, gender and sexuality, self-care, pharmaceuticals, language and linguistic competencies. He is also spearheading a One Health initiative in UP Diliman, integrating human, veterinary and environmental health. He is active in various advocacies around human rights, particularly around Indigenous People's communities. He is currently coordinating a research project, "Navigating the Environments of Covid-19 Risk". Dr. Tan is a National Academician, Social Science Division. A firm believer in public social sciences, he writes an op-ed column twice a week for the Philippine Daily Inquirer, the country's largest English broadsheet.

## Éliane Ubalijoro

Rwanda



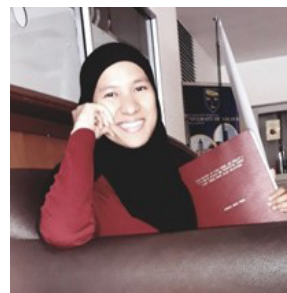
### Biography

Éliane Ubalijoro, PhD is the Deputy Executive Director for Programs at Global Open Data in Agriculture (GODAN). She is a professor of practice for public and private sector partnerships at McGill University's Institute for the Study of International Development where she co-led Bill and Melinda Gates Grand Challenges Exploration grants in agriculture and health. She is a member of Rwanda's National Science and Technology Council. She is a member of the Presidential Advisory Council for Rwandan President Paul Kagame. Éliane is a fellow of the African Academy of Sciences. She is a member of the China Council for International Cooperation on Environment and Development (CCICED) Special Policy Study on Post 2020: Global Biodiversity Conservation. Éliane is a member of the Advisory Panel of *Scientific African*, the open access journal published by the Next Einstein Forum (NEF).

# Behavioural Participant Biographies

## Raudah Yunus

Malaysia



### Biography

Raudah Yunus (MBBCH, MPH, DrPH) is a researcher, writer, social activist and senior fellow at the Atlantic Institute (Oxford). She currently teaches Public Health at the Faculty of Medicine, Universiti Teknologi MARA (UiTM). Raudah previously served as a medical doctor, before pursuing higher degrees in Public Health. Her research interests include aging, elder abuse and neglect, health equity and vulnerable populations, child labour, and human trafficking. Raudah's peer-reviewed research articles have been published in various internationally acclaimed journals, and her latest research endeavour is on the impact of COVID-19 on older adults' mental health and coping mechanism.

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## Dr Merlin Willcox

United Kingdom



### Biography

I am an Academic Clinical Lecturer in primary care and a GP. I work one day a week in a primary health care centre in Oxford (serving a diverse population from around the globe), and four days a week in research and teaching at the Department of Primary Care and Population Sciences at the University of Southampton. I have longstanding collaborations with colleagues in China, Uganda, Mali and South Africa.

I am part of a group working on antimicrobial stewardship in primary care, in the UK and internationally. Together with colleagues in psychology and Public Health England, we have recently been awarded a grant for the dissemination of "Germdefence", an online behavioural intervention designed to improve the use of infection control behaviours in the home. I am also working on an international survey of prevention and treatments used for Covid-19.

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### Biography

# Clinical Group



Chair: Professor Rosalind Smyth CBE FMedSci, UK



Secretariat lead: Dr Abigail Bloy, International Policy Officer, Academy of Medical Sciences



IT lead: Fern Brookes, International Policy Officer, Academy of Medical Sciences



Facilitator: Mr Ian Jones



Professor Anurag Agarwal, India



Dr Marissa Alejandria, the Philippines



Dr Regina Berba, the Philippines



Professor Jacob John, India



Professor Dr Adeeba Kamarulzaman, Malaysia



Dr Suresh Kumar, Malaysia



Dr Arthur Kwizera, Uganda



Dr Horacio López, Argentina



Dr Juan Antonio Mazzei, Argentina



Dr Arifa Parker, South Africa



Professor Michael Pepper, South Africa



Acads. Celso Ramos-Filho, Brazil



Professor Patrícia Rocco, Brazil



Professor Rebecca Shipley, UK



Dr Merlin Willcox, UK

# Clinical Participant Biographies

## Professor Anurag Agarwal

India



### Biography

Dr Anurag Agrawal is Director of the CSIR Institute of Genomics and Integrative Biology. After undergraduate medical studies at the All India Institute of Medical Sciences, Delhi (1994), he trained in Internal Medicine, Pulmonary Disease and Critical Care at Baylor College of Medicine, Houston, USA (2003), followed by a PhD in Physiology from Delhi University. His primary research is in respiratory biology and broader interests are in smart deployment of emerging technologies towards healthcare, where he serves on national thinktanks, co-chairs the Lancet and Financial Times commission on Governing Health Futures, and serves on related expert groups at the World Health Organisation. He received the Shanti Swaroop Bhatnagar Prize, the highest govt scientific award in India, in Medical Sciences in 2014, and has been elected as a fellow of the Indian National Science Academy and the Indian Academy of Sciences. He is also a Senior Fellow of the Wellcome Trust DBT India Alliance for his work on poor lung function of Indians.

## Dr Marissa Alejandria

The Philippines

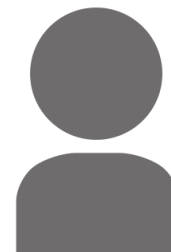


### Biography

Dr Alejandria is a Professor of Infectious Diseases and Clinical Epidemiology at the University of the Philippines-College of Medicine. Her research expertise is on the conduct of epidemiological researches, health care quality improvement researches, health policy and systems research and developing systematic reviews and clinical practice guidelines. Dr Alejandria currently serves as a member of the COVID-19 Technical Advisory Group for the Department of Health and is the National Project Coordinator for the WHO SOLIDARITY Trial of the Philippines. She coordinates the COVID-19 Study Group at the University of the Philippines – Manila and the development of rapid reviews and rapid guidance on the management of COVID-19. She has participated in webinars in the country particularly on the treatment landscape of COVID-19.

## Dr Regina Berba

The Philippines



### Biography

Infectious Disease Specialist. Philippine General Hospital; University of the Philippines.

# Clinical Participant Biographies

## Professor Jacob John

India



### Biography

Christian Medical College and Hospital Vellore

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## Professor Dr Adeeba Kamarulzaman

Malaysia



### Biography

Professor Kamarulzaman trained as an Infectious Diseases physician and is presently the Dean of the Faculty of Medicine, University of Malaya and an Adjunct Associate Professor at Yale University.

Professor Adeeba has played a leading role in the response to the HIV epidemic in Malaysia and globally. She directs the Centre of Excellence for AIDS Research (CERiA) at the University of Malaya and is presently Chair of the Malaysian AIDS Foundation, a trust that raises funds for HIV related programs in Malaysia. At the international level, she was a Co-Chair of the WHO Strategic and Technical Advisory Committee on HIV, and is currently the President-elect of the International AIDS Society and a member of the UNAIDS Advisory Group.

Her achievements have been recognised through several national and international awards including a Doctor of Laws from her alma mater, Monash University, for her contributions to medicine and as a health advocate.

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## Dr Suresh Kumar

Malaysia



### Biography

He has been Infectious Diseases Consultant in Hospital Sungai Buloh since 2003. He is also a visiting consultant for National Heart Institute (IJN).

Hospital Sungai Buloh is a fully COVID hospital and has been in the forefront of the COVID response in the country. He also sits in the national task force that is spearheads the national response.

He has participated in several international HIV treatment trials and has served on expert panels for national treatment and practice guidelines relating to infectious diseases including HIV, Dengue, Adult Immunisation and National antibiotic guidelines. Dr Suresh is actively involved in the Infectious diseases fellowship programme in the country. He is the Past President of the Malaysian Society for HIV Medicine, MASHM.

# Clinical Participant Biographies

## Dr Arthur Kwizera

Uganda



### Biography

Dr Arthur Kwizera is a Senior Lecturer in Anaesthesia and Intensive care at Makerere University College of Health Sciences and a staff intensivist at the Mulago National Referral Hospital Intensive care unit In Kampala, Uganda.

After completing his specialist anaesthesia and intensive care training in Uganda, he received further training from the University of British Columbia in Canada and critical care interventional pulmonology fellowship in Venice, Italy. His research work is centered on epidemiology, pathophysiology and management of acute organ dysfunction and corresponding life support interventions in low resource settings.

He has spoken at different critical care congresses including the ESICM and SCCM. He is a member of the surviving sepsis campaign guidelines taskforce. He is also a member of the WHO respiratory expert panel, WHO COVID19 interim guidance panel, and part of Uganda's COVID National Task Force as member of case management and ministerial scientific advisory committee.

## Dr Horacio López

Argentina



### Biography

- Infectious Diseases Specialist, Buenos Aires University
- Professor Emeritus, Buenos Aires University
- Honorary Professor of El Salvador University
- President "9th World Congress on Infectious Diseases"
- Member "Infectious Diseases Society of America"
- Secretary "Member of the Professional Development Working Group of the International Society of Infectious Diseases"
- "Emerging Diseases Advisor" of the National Ministry of Health
- Avian Influenza H5N1 Consultant, National Ministry of Health -2004
- A H1N1 Influenza Consultant, National Ministry of Health. 2009
- Member of the National Program on Immunopreventable Diseases, 2010
- Has received 14 National Academy of Medicine Awards
- Member of the National Academy of Medicine
- Head Professor of Infectology, Favaloro University
- Director, Infectious Diseases Specialty Program, Buenos Aires University
- President "Argentine Society of Infectious Diseases", two terms
- "Vigi-A Program Coordinator", World Bank
- "Biosafety Standards Advisor", National Ministry of Health
- Has authored 24 books
- Published 88 papers in International Conferences.
- 47 articles in Medical Journals.

## Dr Juan Antonio Mazzei

Argentina



### Biography

Vice-President & Member of the National Academy of Medicine  
Honorary Professor, School of Medicine of Universidad de Buenos Aires  
PhD in Medicine, Universidad de Buenos Aires & specialist in Pulmonary Diseases and Internal Medicine  
President of Fundación Argentina del Tórax  
Member of the Administration Council of FUNDALEU  
Member of the Administration Council of "Instituto de Medicina Experimental (IMEX)" (CONICET-ANM)  
Member of the Administration Council of "Mater Dei" Hospital  
Chief Editor of the American Journal of Respiratory Medicine of the "Asociación Argentina de Medicina Respiratoria (AAMR)"

### Member of the following Medical Societies

Asociación Médica Argentina  
Asociación Argentina de Medicina Respiratoria (Founding Member)  
American Thoracic Society  
American College of Chest Physician (ex Argentinian Regent)  
European Respiratory Society (ex National Delegate)  
Asociación Latinoamericana del Tórax  
International CTEPH Association (Chronic Thromboembolic Pulmonary Hypertension)

# Clinical Participant Biographies

## Dr Arifa Parker

South Africa



### Biography

Arifa Parker is a general physician and infectious diseases specialist working at Tygerberg Hospital, a dedicated COVID-19 hospital in Cape Town, South Africa. She is a senior lecturer in the Divisions of Internal Medicine and Infectious Diseases at the Faculty of Medicine and Health Sciences at Stellenbosch University. She completed her undergraduate and postgraduate degrees at Stellenbosch University, and is actively involved in the hospital's COVID-19 response. She is currently pursuing a PhD in HIV and SARS-CoV-2 coinfection, while being a mom to her 3 year-old twins.

## Professor Michael Pepper

South Africa



### Biography

Michael Pepper is Director of the Institute for Cellular and Molecular Medicine, Director of the SAMRC Extramural Unit for Stem Cell Research and Therapy, and a professor in the Department of Immunology in the Faculty of Health Sciences at the University of Pretoria (UP). He is also *professeur associé* in the Department of Genetic Medicine and Development in the Faculty of Medicine at the University of Geneva, Switzerland. Michael obtained his MBChB in 1982 from the Faculty of Medicine at the University of Cape Town, and moved to Geneva in 1986, where he obtained his PhD in 1990, MD in 1992 and Privat Docent in 1997. Michael returned to South Africa in July 2004. He has worked extensively in the field of clinically-oriented (translational) molecular cell biology, and his current interests include stem cells and the human genome as well as the ethical, legal and social implications of work in these fields.

## Acads. Celso Ramos-Filho

Brazil



### Biography

MD degree Federal University of Rio de Janeiro. MSc degree in Infectious and Parasitic Diseases, Federal University of Rio de Janeiro. Diploma Course on Clinical Epidemiology, University of Newcastle (NSW).

Associate Professor, Department of Infectious and Parasitic Diseases, Federal University of Rio de Janeiro.

Member of the Brazilian National Academy of Medicine. Member of the National Advisory Group on Anti-retroviral Therapy, Ministry of Health (Brazil). Co-ordinator, Infectious Diseases Technical Chamber, Regional Council of Medicine of Rio de Janeiro. Chair Emeritus, Board of Trustees, International Association of Physicians in AIDS Care.

Advisor to both the State and the Municipality of Rio de Janeiro on matters concerning vector-borne and epidemic infectious diseases. Currently, advisor to the Mayor of Rio de Janeiro, regarding the COVID-19 epidemic.

I have published chapters in various medical books, and written papers published in Brazilian and foreign medical journals. Also, authored, or co-authored, abstracts presented at national and international congresses and conferences.

Research interests: vector borne diseases, epidemic infectious diseases, HIV/AIDS, history of infectious diseases.



# Clinical Participant Biographies

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## Professor Patrícia Rocco

Brazil



### Biography

Patricia Rocco, MD, PhD, is an elected Full Member of the National Academy of Medicine in Brazil and Brazilian Academy of Science. She is a Full Professor at the Federal University of Rio de Janeiro, where she heads the Laboratory of Pulmonary Investigation and leads a team of 60 people, including associate professors, postdoctoral fellows, and graduate and undergraduate students. Professor Rocco has authored and co-authored more than 340 peer-reviewed publications (H index: 47) and 120 book chapters. Her research activities focus mainly on the pathophysiology of acute (ARDS) and chronic (asthma, COPD and silicosis) pulmonary diseases and the development of new approaches (cell and gene therapies) for their treatment. She is currently coordinating 3 clinical trials of COVID-19 patients in Brazil. Professor Rocco has more than 400 invited presentations.

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## Professor Rebecca Shipley

United Kingdom



### Biography

Professor of Healthcare Engineering | Director, UCL Institute of Healthcare Engineering | Vice Dean (Healthcare) UCL Mechanical Engineering | Faculty of Engineering Sciences

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### Biography



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