

Biographies of the members of, and advisers to, the IHR Emergency Committee concerning ongoing events and context involving transmission and international spread of poliovirus

Professor Helen Rees (CHAIR)

GCOB OBE MB BChir MA(CANTAB) MRCGP DRCOG DCH, Executive Director, Wits Reproductive Health and HIV Institute, University of Witwatersrand, Johannesburg, South Africa



Professor Rees is the Chairperson of the Board of the South African Health Products Regulatory Authority. She has served on and chaired many national and global scientific committees and boards. She was the Chair of the WHO's Strategic Advisory Group of Experts on Immunisation (SAGE) and she now chairs the WHO's African Regional Technical Advisory Group on Immunisation (RITAG).

Since 2014 Professor Rees has been the Chair of the Emergency Committee regarding the international spread of poliovirus.

From 2015 to 2016, she was a member of the Review Committee on the Role of the International Health Regulations (2005) in the Ebola Outbreak and Response tasked with making recommendations to WHO about steps required to improve the global response to public health emergencies and is a member of

the IHR Emergency Committee on Yellow Fever. She was the Chair of the WHO SAGE Committee on the Use of Vaccines in Humanitarian Emergencies and is now the Co-Chair of the WHO SAGE Committee on Ebola vaccines as well as chairing the WHO's Maternal Influenza Immunisation Advisory Review Committee.

She is a member of the WHO SAGE Committee evaluating progress towards the Decade of Vaccines, and a member of the WHO SAGE Measles and Rubella Working Group. Professor Rees is a member of the Gavi Board and the Gavi Programme and Policy Committee, and chairs the Gates Foundation's Committee on Single Dose HPV vaccines.

Professor Rees has won many international and national awards for her contribution to global health and to science, specifically being made an Officer of the British Empire (OBE) in 2001 by Queen Elizabeth II. In 2016, she was awarded the South African National Order of the Baobab for her contribution to medicine and to medical research.

Dr Salah T. Al Awaidy

Communicable Diseases Adviser in Health Affairs, Ministry of Health, Muscat, Oman



He is a medical doctor and holds a Masters in Epidemiology. He is currently the Adviser on Communicable Disease Surveillance, Elimination and Eradication of Communicable Diseases of Public Health Importance, EPI, vaccine supply chain system and IHR. He was the Director of Communicable Disease Surveillance and Control at between 1997-2011, IHR national focal point and was a member in several of the professional committees namely: Strategic Advisory Group on Immunization, WHO Geneva; Strategic Advisor Group on Vaccine and Store Management Training Courses, WHO Geneva; Strategic TB Advisory Board; and member of the GAVI Independent Review Committee. He also currently serves as IHR Emergency Committee on Polio and MERS-CoV.

He works closely with the Eastern Mediterranean Regional Office of the World Health Organization; he is a regional member of many Infectious Diseases Advisory Committees and has been involved in research related to vaccine preventable diseases and surveillance both locally, regionally and globally.

He has participated as an expert in many national, regional and international meetings and conferences. He has also been an adviser and organizer to the many national communicable diseases and vaccine preventable disease and surveillance congresses and symposia. He has authored or been the co-author of over 30 publications on a large variety of health topics.

He has played a pivotal role in national preparedness and management of SARS, pH1N1, avian influenza, and eradication of Polio, elimination of Measles, Rubella, maternal and neonatal tetanus, Leprosy and control of TB, and other vaccine preventable diseases. Under his leadership, Oman was certified as dracunculiasis and polio free. Dr Al Awaidy was previously a member of the Review Committee on the Role of the International Health Regulations (2005) in the Ebola Outbreak and Response (2015).

Dr Yagob Yousef Al-Mazrou

MB, ChB, DCH, PhD, FRCGP, is the Secretary General-Saudi Health Council, Kingdom of Saudi Arabia



Doctor Al-Mazrou has been working in the immunization field for 27 years. In the 1980s he was Director General for Primary Health care in the implementation of the Expanded Programme of Immunization in Saudi Arabia. He then became the Assistant Deputy Minister for Preventive Medicine at the Ministry of Health, Saudi Arabia, and has focused his work on eradication activities of vaccine preventable diseases.

He has been member of the Regional Commission for Certification of Polio Eradication since its formation in 1995, in addition to his membership of the Advisory Committee of the Horn of Africa. In the past decade, he was the Chair of Technical Advisory Group on polio eradication for Yemen and Egypt. From 2001-2004, he served as a member of the WHO Executive Board,

and from 2004-2010, he was a member of the Advisory Committee for polio eradication for WHO. Doctor Al-Mazrou's research interests include prevention of vaccine preventable diseases, particularly polio, in children of the Middle East region. In 1988, he was awarded the "Jacques Parisot" Prize for research in primary health care and public health by WHO; in 1990 he was awarded the "Universal Child Immunization Commemorative Medal" by UNICEF, in recognition of his efforts in contributing to universal child immunization and in 2014 he was awarded the Dr. A.T. Shousha Foundation Prize by WHO.

Doctor Al-Mazrou, gained his medical degree from Mosul Medical College in Iraq in 1971, and in 1977 he received a diploma in child health from the Royal College of Physicians and Surgeons in Ireland. In 1992, he obtained a PhD from City University in London, UK.

Doctor Al-Mazrou is the author of over 109 publications and over 23 book chapters and reports.

Dr Stephen L. Cochi

M.D., M.P.H. Senior Advisor to the Director of the Centers for Disease Control and Prevention's (CDC) Global Immunization Division (GID)



Dr Cochi has spent over 30 years at CDC working in the field of immunization and from 1985 to the present, he served in various roles at CDC where he led and managed the U.S. immunization program and its international activities. From 1993-2003, he led CDC's global immunization activities as Director of GID, which is a major partner in the Global Polio Eradication Initiative (GPEI), Global Measles and Rubella Initiative (M&RI), the Global Alliance for Vaccines and Immunization (GAVI Alliance), and other priority global immunization activities.

Dr Cochi served as Deputy Director of the U.S. National Immunization Program in 2003 and as Acting Director for two years from January 2004-December 2005

Dr Cochi has authored or co-authored more than 110 scientific journal articles, 12 letters to the editor, and 25 book chapters on vaccines and vaccine-preventable diseases, and more than 150 CDC publications including *Morbidity and Mortality Weekly Report* articles. He is a Fellow of the American Academy of Pediatrics and the Infectious Diseases Society of America, and a member of the American Public Health Association, Pediatric Infectious Diseases Society, and American Epidemiological Society.

Before joining CDC, he was a pediatrician in the Indian Health Service from 1980-1982 on the Navajo Reservation in Gallup, New Mexico. Dr. Cochi is board certified by the American Board of Pediatrics and the American Board of Preventive Medicine.

Dr Cochi holds a B.S. from MIT, an M.D. from Duke University, and an M.P.H. from Emory University. Dr. Cochi completed residency training in pediatrics at the Massachusetts General Hospital and in preventive medicine at the CDC. In addition, he completed CDC's two-year Epidemic Intelligence Service (EIS) training program in 1984.

Dr Vanessa Field

Deputy Director of the UK National Travel Health Network and Centre (NaTHNaC)



Dr Vanessa Field is Deputy Director of the National Travel Health Network and Centre (NaTHNaC), Consultant in Travel Medicine at the Hospital for Tropical Diseases (HTD) in London, UK, and GeoSentinel Tracking and Communications Working Group Chair. She is a member of Public Health England's Advisory Committee for Malaria Prevention in UK Travellers (ACMP), a member of the Department of Health's travel sub-group of the Joint Committee on Vaccination and Immunisation (JCVI), and a EuroTravNet Board member.

She previously worked as Medical Adviser to the British Foreign and Commonwealth Office (FCO).

Dr Olga E. Ivanova

Leading Researcher of the Department of poliomyelitis and other enteroviral infections, Chumakov Federal Scientific Center for Research and Development of Immune-and-Biological Products of Russian Academy of Sciences (Chumakov FSC R&D IBP RAS), Professor of the First Moscow State Medical University



Dr Ivanova, MD, PhD, ScD, is the Leading Researcher of the Department of poliomyelitis and other enteroviral infections, Chumakov Federal Scientific Center for Research and Development of Immune-and-Biological Products of Russian Academy of Sciences (Chumakov FSC R&D IBP RAS), Professor of the First Moscow State Medical University. As a virologist and epidemiologist, she has dedicated her work to studying virological, epidemiological and serological aspects of poliovirus infection.

In 1978, Dr Ivanova graduated as a Medical Doctor from the first Moscow Medical Institute, Department of Sanitary and Hygiene, Russian Federation. From 1978 to 1981, she was a post-graduate student at MP Chumakov Institute of Poliomyelitis and Viral Encephalitis, focusing on the etiology, epidemiology and prophylaxis of enterovirus infections. Dr Ivanova presented her PhD thesis in 1986 on "Evaluation of efficacy of removal of enteroviruses from waste waters in exploitation of acting and newly put into operation systems of clearance" at the Institute of Poliomyelitis and Viral Encephalitis, Moscow. In 2009, Dr Ivanova presented her ScD thesis on "Virological monitoring as a key element in control of performance related to the Polio Eradication program in the Russian Federation", at the MP Chumakov Institute of Poliomyelitis and Viral Encephalitis, Moscow.

From 1993 to 1995, Dr Ivanova was the Head of the Laboratory for Environmental Virology at the MP Chumakov Institute of Poliomyelitis and Viral Encephalitis, Moscow. From 1995 to 2013, she headed the National Reference Laboratory and the Regional Reference Laboratory for the Russian Federation and the Newly Independent States for the Polio Eradication Initiative in the European Region, at the MP Chumakov Institute of Poliomyelitis and Viral Encephalitis, Moscow. From 2013 to 2016, Dr Ivanova was the Deputy Director for Science at the Enterprise on Manufacture of Bacterial and Viral Preparations of the MP Chumakov Institute of Poliomyelitis and Viral Encephalitis, Moscow. Dr Ivanova has been a Member of the Emergency Committee from its thirteenth meeting.

Professor Rose Gana Fomban Leke

Former Professor and Head of Immunology and Parasitology, Faculty of Medicine and Biomedical Sciences, University of Yaoundé, Yaoundé, Cameroon



Prior to her retirement in March 2013, Professor Leke was Head of Department at the Faculty of Medicine and Director of the Biotechnology Centre, University of Yaounde. She is currently Chair of the Board of Directors of the National Medical Research Institute, IMPM, Vice President of the Scientific Committee of Cameroon First Lady's Research Centre (CIRCB), and Fellow of the Cameroon Academy of Sciences and the African Academy of Sciences.

Prior to her retirement in March 2013, Professor Leke was Head of Department at the Faculty of Medicine and Director of the Biotechnology Centre, University of Yaounde. She is currently Chair of the Board of Directors of the National Medical Research Institute, IMPM, Vice President of the Scientific Committee of Cameroon First Lady's Research Centre (CIRCB), and Fellow of

the Cameroon Academy of Sciences and the African Academy of Sciences.

She was the 2014 Aggrey-Fraser-Guggisberg Memorial Lecturer at the University of Ghana, when she was awarded the Doctor Honoris Causa (DSc). She was elected International Honorary Fellow of the American Society of Tropical Medicine and Hygiene ASTMH in 2015

In 2011, she received the African Union Kwame Nkrumah Scientific Award for Women, and the award for Excellence in Science from The Cameroon Professional Society (CPS) in 2012.

She is Executive Director of the Cameroon Coalition against malaria, and Chair of the Multilateral Initiative in Malaria (MIM)

She has served and still serves as a consultant on many committees for the World Health Organization (WHO).

She has served as Vice-Chair of the Technical Evaluation Reference group (TERG) of the Global Fund to fight HIV/AIDS, TB and Malaria, Chair of the Data Management Committee (DMC) for a trial on Azithromycin-chloroquine, a member of the Scientific Advisory Group (SAG) for Ebola vaccine trials in Guinea.

Her research interest is in the immunology of parasitic infections, particularly Malaria, and keen in Global Health and Health Systems Strengthening.

Professor John Mackenzie

Adjunct Professor of Tropical at Curtin University, Western Australia, Perth, Australia, and part-time Senior Medical Scientist-in-Charge at PathWest, Perth



Professor John Mackenzie is an Honorary Professor at the University of Queensland and Honorary Senior Principal Fellow at the Burnet Institute, Melbourne. He was formerly Professor of Microbiology and Adjunct Professor of Tropical Infectious Diseases at the University of Queensland.

He received his PhD in 1969 from the Australian National University where he worked with Professor Frank Fenner and Dr Robert Webster. He was then a faculty member at the University of Western Australia for 22 years, working principally on influenza and mosquito-borne viral diseases.

He was elected Secretary-General of the International Union of Microbiological Societies (IUMS) from 1999 to 2005, Fellow of the American Academy of Microbiology, and is a Past President of the Australian Society for Microbiology and the Asia-Pacific

Society for Medical Virology. In 2002, he was appointed as Officer in the Order of Australia for services to public health research and to education, and in 2005, he was the inaugural recipient of the Academy of Science Malaysia's Mahathir Science Award for Excellence in Tropical Research. He was elected to Fellowship of the Australian Academy of Technological Sciences and Engineering in 2015. He serves on a number of international committees with the World Health Organization (WHO) and other Non-Government Organizations. He is a member of the IHR Roster of Experts, and is currently a member of the Emergency Committee for Polio. He served as Chair of the IHR Emergency Committee for Influenza H1N1. He had previously served as a member of the steering committee of the Global Outbreak Alert and Response Network (GOARN) and a member of the Technical Advisory Group of the WHO Asia-Pacific Strategy for Emerging Diseases.

His recent major research interests have been in mosquito-borne virus diseases (particularly the ecology of Flaviviruses) and in emerging zoonotic viruses, and he has published over 300 major papers and research chapters on these and other research topics concerned with human and animal viral diseases. He has also been closely involved with the One Health concept and helped establish the One Health Platform foundation.

Professor MacKenzie is a member of the IHR Emergency Committee concerning ongoing events and context involving transmission and international spread of poliovirus. He is also member of the IHR Emergency Committee concerning Influenza Pandemic (H1N1) 2009.

Professor Mahmudur Rahman

Former Director of the Institute of Epidemiology, Disease Control and Research and the National Influenza Centre, Ministry of Health and Family Welfare, Dhaka, Bangladesh



For over 30 years he has worked in the area of epidemiologic and public health research and surveillance of communicable and non-communicable diseases, and public health policies. Recently joined as Senior Advisory, Bangladesh Center for Communication Programs (BCCP).

Professor Rahman has played a key facilitator role in establishing the National Influenza Center, BSL 3 and Nipah laboratory, and web based disease surveillance in Bangladesh. Started the FETP/Master's in Applied Epidemiology, Frontline FETP and Improving Public Health Management for Action Courses at IEDCR. Served as a member of the IHR (2005) and Pandemic Influenza Review Committee at WHO HQ in Geneva. Currently serving as member SEAR Certification Commission for Polio Eradication, Editorial Board member of the SEARO Journal,

member of the Emergency Committee on MERS-CoV, events related to Poliomyelitis, and Ebola Viral Disease and taskforce member in the WHO's Nipah virus research and development (R&D) roadmap process. Also, serving as Chair of Advisory Panel on PIP Framework to WHO's Director General and Technical Advisory Group member of Asia Pacific Strategy for Emerging Diseases.

Conducted a large number of studies for the last 30 years. He is Editor of "Text Book of Community Medicine and Public Health", and has authored 126 publications in international and national peer-reviewed journals. He earned a Masters in Primary Health Care Management from Mahidol University, Thailand and Ph.D in Epidemiology from University of Cambridge, UK.

Dr Sayed Ataullah Saeedzai

MD, MSc, Director General of Evaluation and Health Information System and IHR National Focal Point and State Nominated IHR Expert for Afghanistan



Dr Saeedzai has been the Director General of Evaluation and Health Information System (EHIS) since 2015 and was head of Surveillance from 2015 to 2016. In addition, he has been the member of National Immunization Technical Advisory Group (NITAG) in Afghanistan since 2013, and the chair of the Advisory Group from 2015 to 2016.

Dr Saeedzai has provided technical support for national surveys and has worked in key positions focusing on research, monitoring and evaluation with NGOs such as the Leadership, Management and Governance Project and the Management Sciences for Health (Afghanistan), the Aga Khan Health Services, Afghanistan, the Aga Khan University, the Johns Hopkins Bloomberg School of Public Health, and BRAC Afghanistan (a development organization dedicated to alleviating poverty by

empowering the poor).

He has worked as consultant with KPMG, a Local Fund Agent for the Global Fund and has considerable expertise in the Immunization and Surveillance technical areas of the International Health Regulations (IHR). Dr Saeedzai has worked on a volunteer basis at Kabul Medical University as lecturer of Biostatistics for Public Health Faculty Students.

Dr Saeedzai obtained his MD from Kabul Medical University in 2003 and he received his Master Degree of Science (MSc) in Epidemiology and Biostatistics in 2008. He has published extensively in both national and international journals including the Lancet and the Ghazanfar Medical Journal.

Dr Muhammad Salman

Principal Scientific Officer, Public Health Laboratories Division, National Institute of Health, Islamabad



Dr Salman has been working in different capacities in NIH since 1995. He is fellow of College of Physicians and Surgeon Pakistan in the discipline of Pathology with specialization in medical microbiology.

During his experience in the Public Health Laboratories Division, he has participated in the implementation of number of projects related to infectious diseases, laboratory diagnosis and surveillance.

He facilitated the training activities on different aspects of Laboratory medicine including bio-risk management, bio-security, bio-safety, antimicrobial resistance infection control, quality assurance and quality control, surveillance, IHR and AMR etc. He is also among the visiting faculty for lab systems in the Pakistan Field Epidemiology and Laboratory Training

Programme (FELTP).

In addition, Dr Salman has Bio-risk Management Advanced Trainer certification from the World Health Organization (WHO). He also holds certification on Global Health Challenges, Institute of Health Metrics and Evaluation, University of Washington, USA. Presently he is Head of Microbiology

and Virology at the National Institute of Health (NIH) and has been designated as focal person for International Health Regulations and Antimicrobial Resistance by the Ministry of National Health Services Regulations and Coordination, Government of Pakistan.

Professor Oyewale Tomori

DVM, PhD, former Vice-Chancellor of Redeemer's University, Nigeria



He is a Fellow of the Academy of Science of Nigeria, a Fellow of the College of Veterinary Surgeons of Nigeria, Fellow of the Royal College of Pathologists of the United Kingdom and member US National Academy of Medicine.

Professor Tomori received his Doctor of Veterinary Medicine (DVM) degree from the Ahmadu Bello University, Zaria and his PhD in Virology of the University of Ibadan.

He became the Head of the Department of Virology at the University of Ibadan in 1984, leading research efforts that investigated viral infections, such as Yellow Fever in various African countries. In 1994, he was appointed as the Regional Virologist for the WHO Africa Region.

Professor Tomori serves on several advisory bodies including the Board of the BioVaccines Limited in Nigeria, the WHO Africa

Regional Polio Certification Committee, the WHO Eastern Mediterranean Regional Polio Certification Committee, the WHO Advisory Committee on Variola Virus Research, the WHO Polio Research Committee, the WHO Group of Experts on Yellow Fever Disease and the International Steering Committee of the International Consortium on Anti-Virals, ICAV, Canada. He is a Member of the scientific and technical advisory group on geographical yellow fever risk mapping (GRYF).

Professor Tomori's research interests include a wide range of human viruses, and zoonotic and veterinary viruses including the Yellow fever virus, the Lassa fever virus, the poliomyelitis virus, the measles virus, and the Ebola virus. Professor Tomori is recognized as one of Africa's frontline Lassa fever researchers.

He received in 2002, the Nigerian National Order of Merit (NNOM), the country's highest award for academic and intellectual attainment and national development. In 1990 he was awarded the Nigeria National Ministry of Science and Technology Merit Award for excellence in medical research.

Professor Tomori was previously Chair of the Emergency Committee on Yellow Fever. He is currently a member of Board of Gavi Alliance representing the research and technical health institutes constituency.

Former Members and Advisers

Biographies of the former members of, and advisers to, the IHR Emergency Committee concerning ongoing events and context involving transmission and international spread of poliovirus

Dr Theresa Tam

BMBS (UK), FRCPC, Chief Public Health Officer (CPHO) of the Public Health Agency of Canada (PHAC)



As Canada's Chief Public Health Officer she is responsible for responding to public health issues of high importance to Canadians.

She was formerly the Assistant Deputy Minister responsible for the Infectious Diseases Prevention and Control Branch at the Agency. In this role Dr Tam oversaw activities aimed at making Canadians less vulnerable to impacts of infectious diseases. This includes surveillance, laboratory diagnostics, science research, policy development and national leadership for a wide range of infectious disease threats.

Dr Tam has previously provided senior leadership on key Agency initiatives and programs on immunization, respiratory infections, health emergency preparedness and response; public health at Canada's borders and on public conveyances;

laboratory biosecurity; public health workforce, surveillance and other infrastructure capacities; and implementation of the International Health Regulations.

Dr Yu Wang



Former Director-General of Chinese Center for Disease Control and Prevention, Beijing, China

From 1995, Dr Wang worked as the acting director and director for the Institute of Hepatology, People's Hospital. In 1997, he was appointed the vice-president of Beijing Medical University, later, the Vice President of the Peking University Health Science Center responsible for research activities and applied sciences development.

In 2000, he was appointed Deputy Director-General of China National Center for Biotechnology Development (CNCBD), Ministry of Science and Technology (MOST), and then Deputy Director-General of the Department of Agriculture and Social Development, MOST. Working in MOST, he organized funding and administration on biotech R&D which was one part of the

national high-tech R&D programs.

In 2004, after Severe Acute Respiratory Syndrome (SARS), Dr Wang was appointed the Director-General of China CDC. He established the laboratory bio-safety management system in China CDC, and promoted national disease surveillance system. In recent years, he led the responses to H5N1, H7N9 avian influenza in humans, hand-foot-mouth disease, H1N1 influenza pandemic and other public health emergencies. For accelerating the development and production of the pandemic H1N1 vaccine,

Dr. Wang coordinated the largest clinical trials of H1N1 vaccines and recommended the doses and schedule. He joined the response to the Ebola outbreak in West Africa, and has actively involved in the global health. Dr. Wang was previously a member of the IHR Review Committee on the Functioning of the International Health Regulations (2005) and on Pandemic Influenza A (H1N1).

Dr Wang earned his doctorate degree in medicine from Beijing Medical University and Ph.D. from Jichi Medical School of Japan. His research field was molecular virology and immunology of hepatitis virus.

Dr Jane Zuckerman

Consultant and Service Lead in Travel Medicine Royal Free London Travel Health & Immunisation Clinic
Royal Free London NHS Foundation Trust London



Jane Zuckerman qualified from the Royal Free Hospital School of Medicine in 1987 and completed her training in London in general medicine, emergency medicine and occupational medicine. Dr Zuckerman has a long history working in the field of travel medicine, international health and immunisations at national and international levels. She has been practising travel medicine since 1995 and her expertise includes immunisations (including needle phobia), malaria prophylaxis, altitude medicine and all aspects of the clinical practice of travel medicine.

She has been responsible for the travel health needs for over 10,000 travellers per annum over the past 20 years and is a Consultant in Travel Medicine to several international companies. Dr Zuckerman has particular extensive experience in

advising travellers and patients with underlying health problems, including chronic diseases and serious illnesses such as Crohn's Disease, Ulcerative Colitis, diabetes as well as following immunosuppressive treatment, treatment of malignancy with chemotherapy or radiotherapy and transplantation.

Dr Zuckerman was listed in 2001 by the British Medical Association as one of the 82 "Pioneers in Patient Care: NHS Consultants leading change".

Dr Zuckerman was awarded the UK Hospital Doctor of the Year 2001 Award and the UK Hospital Doctor Innovation Award 2001 in recognition of leadership, teamwork, innovation and clinical excellence in the medical profession.

Dr Zuckerman was also awarded a Special Achievement Award for European Clinical Research in 1999 and an Excellence in Medical Education Award, University College London Medical School (2007) in recognition of excellence in teaching, the facilitation of medical student learning and for making an outstanding commitment to students and their education.