Guideline development group on acute supportive care of patients with Ebola Virus Disease in resource-limited settings

Biographies of Members of the Guideline Development Group

DR TAKUYA ADACHI, DTMH

Tak Adachi is the chief physician of the Department of Infectious Diseases at Toshima Hospital, one of the four major infectious disease isolation units in Tokyo City. He received his medical degree from the University of Tokyo and his postgraduate training in Tokyo and Yokohama. He also received his postgraduate diploma in tropical medicine and hygiene from Liverpool School of Tropical Medicine. His interest includes health professions education, and he took part in several projects in Afghanistan, Lao PDR, Ethiopia, Zambia and the Democratic Republic of Congo. Tak has been a member of a Japanese national research group on ‘clinical preparedness for highly pathogenic infectious diseases’ since 2011. During the Ebola virus disease outbreak in West Africa in 2014-2015, he was part of the clinical team of the World Health Organization and worked in Ebola treatment centres with Sierra Leonean and international colleagues.

DR DAVID M. BRETT-MAJOR, FACP FRCP Edin

Dr. David Brett-Major is an Internal Medicine and Infectious Diseases physician. He currently works in bio-medical research of blood-borne pathogens and emerging diseases. He has worked in the United States, South America and Africa, predominantly, as an educator and as part of emergency clinical and public health response. After studying Mathematics at the US Naval Academy, he served as a naval officer at sea, eventually retiring from the Navy as a medical officer. He studied medicine at the F. Edward Hebert School of Medicine, Uniformed Services University (USU), later completing residency and fellowship training as well as obtaining a Master of Public Health degree with a focus in Tropical Public Health. He holds faculty appointments in Tropical Public Health and Infectious Diseases. He led the Military Tropical Medicine educational program, Navy Central HIV Program and served in various other academic, research and public health roles. From 2012 through 2014, he served as a World Health Organization (WHO) medical officer in Geneva, Switzerland. In addition to work in daily alert and response operations and health security policy, he provided technical advice on the Middle East respiratory syndrome coronavirus (MERS-CoV) and avian influenza A(H7N9) task force. Later, he served as a clinical consultant in the Ebola virus disease outbreak in West Africa, deploying to Guinea, Sierra Leone and Nigeria.

DR CHRISTOPHE CLEMENT

Dr Christophe Clement is a French intensivist. He obtained his medical degree from University of Bordeaux, France, and graduated as an Anesthesiologist-Intensivist in the University of Poitiers.

First half of his career was in public hospitals in France, as an Intensivist. He experienced working abroad in Saudi Arabia for eighteen months as the Director of the ICU in Dahran Hospital,
and later in the French Hospital in Hanoi, Viet Nam for two months a year for five years. He was in Hanoi to give help for the SARS outbreak in 2003, and worked in the French hospital till the end of the outbreak.

Second part of his career is dedicated as an Intensivist in Private Hospitals in France (Toulouse, Bordeaux). He was recently involved in the Ebola outbreak, for two missions as an intensivist consultant (WHO and MSF).

DR AMA KYEREWAA EDWIN

Dr. Ama Kyerewaa Edwin is a Ghanaian who holds a degree in Medicine and Surgery (University of Ghana Medical School), an MPhil in Clinical Psychology (University of Ghana) and a Doctor of Bioethics (Loyola University, Chicago, USA). She has expertise in palliative care.

She is committed to improving the care of those with serious or life-threatening conditions and helps clinicians and other health professionals meet a standard of excellence in health care through policy development, consultation, training, and research in palliative care and bioethics. She works with clinicians to improve care outcomes by delivering quality patient/family centered care, facilitating clinician-patient communication, and addressing ethical dilemmas arising from the patient care process.

Dr. Ama Edwin has a passionate desire to see scientific and ethical multinational research done in Africa in particular and in LMICs in general. She promotes a culture of ethical research and has been a member of the Ghana Health Service Ethical Review Committee from January 2009 and a founding member of the Korle Bu Teaching Hospital Institutional Review Board from its inauguration in September 2015. Her work focuses on helping emotionally distressed people cope effectively; ethical decision-making in clinical practice and research; and improving the care of those with serious or life-threatening conditions. She is a trainer in palliative care and has published in peer reviewed journals. Her research interests include the therapeutic privilege, medical errors, genetics ethics, ethical decision-making at the extremes of life, and research in vulnerable populations.

She has been involved in a number of Ebola Virus Disease related activities including international reviews of Ebola Vaccine Clinical Trials Applications, public engagements on Ebola Vaccine Trials in Ghana and Africa’s fight against Ebola. She was an independent expert at the African Union Support to Ebola Outbreak in West Africa (ASEOWA) Evaluation Workshop Mahe, Seychelles, 26 – 28 October 2015. She also helps organizations integrate their mission and address ethical issues.

ASSOCIATE PROFESSOR MUBARAK MUSTAFA ELKARSANY, MD

Dr. Mubarak Elsaed Mustafa Elkarsany M.D is an Associate professor of microbiology – University of Karary-Sudan. He has been appointed as university lecturer since 1996 after obtaining his clinical M.D in pathology and microbiology and have pursued the career of public health laboratory work with special interest in virology and arboviral research in viral hemorrhagic fevers related to Sudan and the African region. He have done several researches with published articles in field surveillance activities related to dengue fever/dengue hemorrhagic fever, Cremean Congo
hemorrhagic fever, Yellow fever and Rift Valley fever. He was the first scientist to document the existence of CCHF in Sudan and have collaborated with Naval American Medical research unit 3v to develop national guidelines and lab based surveillance for epidemic prone diseases. In 2015 he was awarded by CDC-USA The International Conference On Emerging Diseases Award As World Health leader. He have collaborated with the WHO—EMRO and AFRO regional office in various partime missions as temporary consultant and is currently working with ProMED-USA as a regional Middle East moderator.

**DR WILLIAM A. FISCHER II**

William Fischer is a Pulmonary and Critical Care physician at the University of North Carolina School of Medicine with an expertise in severe emerging viral infections, clinical research and international health. Dr. Fischer has extensive field experience providing medical care in resource constrained environments and was deployed as a WHO critical care consultant to care for Ebola-infected patients in Guekedou, Guinea—the epicenter of the 2014-2016 Ebola outbreak and most recently to N’zerekore in response to a resurgence of Ebola virus disease. His team, co-led with David Wohl, also launched the first clinical trial of a therapeutic intervention in an Ebola outbreak and in doing so brought augmented clinical care and expanded healthcare infrastructure. Currently he has active programs exploring the clinical complications of EVD and serves as one of the principal investigators for PREVAIL IV evaluating a novel antiviral compound for efficacy in reducing or eliminating Ebola virus shedding in male survivors of Ebola. Dr. Fischer serves as a member of the WHO Epidemic Clinical Management Team, the WHO Antiviral Working Group, and the CDC Ebola Response Team.

**DR THOMAS EDWARD FLETCHER, MBE MBChB MRCP DTM&H**

Tom Fletcher is a Wellcome Trust/MoD Research fellow at the Liverpool School of Tropical Medicine currently researching CCHF in Turkey. He is an ID physician and deployed to the West African Ebola Outbreak with HQ WHO, the UK Defence Medical Services and Save the Children International.

**DR SANDY GOVE, MPH**

Sandy Gove MD, MPH is currently the Executive Director of the IMAI-IMCI Alliance, a US-based NGO and technical partner with several departments in WHO and member of the WHO Emerging Disease Clinical Assessment and Response Network (EDCARN).

After training in internal medicine and clinical epidemiology at UCSF and UC Berkeley, Sandy spent 3 years in Somalia working on maternal and child health and tuberculosis control. She was seconded from UCSF to the WHO Control of Diarrhoeal Diseases department in 1990 to develop the first Acute Respiratory Infection/childhood pneumonia program, then was the technical lead for its expansion to Integrated Management of Childhood Illness (IMCI). From 1996 to 2000 she worked on the development of the Integrated Management of Pregnancy and Childbirth (through the WHO reproductive health department) and the Practical Approach to Lung Health, which incorporated the management of adult pneumonia, asthma and COPD with that for TB (through the WHO TB department). From 2000 to her retirement from WHO in 2011, she led the development and
implementation of Integrated Management of Adolescent and Adult Illness (IMAI), including simplified guidelines, training, mentoring, quality improvement and patient monitoring tools for first-level health centres, as well as the IMAI District Clinician Manual. The first-level tools were used extensively in Africa to support the scale up of antiretroviral therapy and chronic HIV care.

Based on guidelines in the IMAI District Clinician Manual, Dr Gove led the development of a curriculum to improve the clinician’s role in disease surveillance and response, emergency care and treatment for adults, and the management of severely ill patients with respiratory distress and septic shock. After retiring from WHO in 2011, she continued to work with others from the IMAI-IMCI Alliance team and Walimu (a Ugandan NGO) to provide technical support to the Ugandan Ministry of Health for the adaptation of the IMAI District Clinician Manual, implementation of this training program, and to develop a pocket guide for front-line health workers for the clinical management of viral haemorrhagic fevers. She continues to advocate for an integrated approach to the district health care in limited-resource countries; the functional integration between the community, health centre and hospital levels of care; and the relevance of an integrated clinical approach for multiple global health programs (most recently for management of non-communicable diseases).

DR ARMANDO CARLOS GARCI GUERRERO

I borned in Mexico, and I have lived mainly in the northeast of the country in Monterrey. I’m an Emergency Doctor who was alternating as an attending Emergency physician in Mexico, with a priority to medical humanitarian work with MSF since 2012.

I have a degree in Integrated Medicine (a new specialty in Mexico that combines clinical and public health approach) and during my duty’s/on calls of that specialty, I fall in love with Emergency Medicine that is why, just after finishing this specialty I immediately applied for this passionate area of medicine which is Emergency.

As an Emergency Doctor, I have had experience in Trauma and Violence in projects from Iraq and even my own country in Mexico, and also as Project Medical Referent on the field, I have had experience for projects in Syria and RD Congo, also in a simultaneous role as ER MD and Head Doctor for the Ebola Treatment Center in Freetown, Sierra Leone, during December 2014-February 2015.

Since September 2015, I am currently working as Medical Operations Support Officer for Emergency Care Response based in the headquarters in Geneva, and travelling to the field to support our projects with the main aim to of implementation of Emergency Care System and tools.

Main interests: Crossover between Emergency Medicine (EM): and Trauma, EM and Tropical diseases (Ebola, Malaria, Dengue), Pre-Hospital Medicine and Disaster Medicine.

Personal Interest: Philosophy, Politics (the real one!) and Public Health, Meditation and Running.

PROFESSOR GORDON HENRY GUYATT, BSc, MD, MSc, FRCP, OC

Dr. Gordon Guyatt is a Distinguished Professor in the Departments of Medicine and Clinical Epidemiology and Biostatistics at McMaster University. He has published over 1,000 papers in peer-
reviewed journals; his work has been cited over 80,000 times. His work includes a major role in the creation and refinement of the GRADE approach to rating quality of evidence and grading strength of recommendations in systematic reviews and clinical practice guidelines.

ASSOCIATE PROFESSOR STEVEN J. HOFFMAN, BHSc, MA, JD

Steven J. Hoffman is the Director of the Global Strategy Lab and an Associate Professor of Law, Medicine and Public & International Affairs at the University of Ottawa with courtesy appointments as an Associate Professor of Clinical Epidemiology & Biostatistics (Part-Time) at McMaster University, Adjunct Faculty with the McMaster Health Forum, and Adjunct Associate Professor of Global Health & Population at Harvard University. He is an international lawyer licensed in both Ontario and New York who specializes in global health law, global governance and institutional design. His research integrates analytical, empirical and big data approaches to craft global regulatory strategies that better address transnational health threats, social inequalities and human rights challenges. Past studies have focused on access to medicines, antimicrobial resistance, development assistance, health misinformation, health systems, maternal health, pandemics, technological innovation and tobacco. Currently he is co-principal investigator of a large $4.6 million CAD research consortium on “Strengthening International Collaboration for Capitalizing on Cost-Effective and Life-Saving Commodities (i4C)” with John-Arne Røttingen at the Norwegian Institute of Public Health. He is a regular columnist with Vox and writes the Burden of Proof column with journalist Julia Belluz. He is Co-Chief Editor for Global Health of Wiley's new premier open-access journal Global Challenges.

DR SHEVIN JACOB, MPH

Dr. Shevin Jacob is an infectious diseases physician and Assistant Professor in the faculty of the Division of Allergy and Infectious Diseases within the Department of Medicine at the University of Washington.

Dr. Jacob's research focuses on the management, epidemiology and pathogenesis of sepsis syndromes in resource-constrained settings, primarily in Uganda. Since 2009, he has also served as a consultant to the World Health Organization (WHO) as part of various working groups to improve the clinical management of sepsis and other severe illnesses in resource-constrained settings. Through this work, he has assisted the IMAI Alliance, a US-based non-government organization (NGO) and technical partner for the WHO, to develop training curricula which focus on triage and emergency management of severe illness and the front-line clinician’s role in disease surveillance, infection control, and outbreak response. This training course and post-training quality improvement efforts are currently being implemented at Ugandan government hospitals by Walimu, a Uganda-based non-government organization for which Dr. Jacob is Medical Director and a co-founder.

During the recent Ebola outbreak in West Africa, Dr. Jacob was deployed to Guinea, Sierra Leone, and Liberia by the WHO for several roles including assisting in the clinical management of patients with Ebola Virus Disease, training/mentoring health workers to work in Ebola Treatment Units using training materials and a curriculum which he helped develop for the WHO, and advising
Ministries of Health on case management strategies. Through the WHO Emerging Disease Clinical Assessment and Response Network (EDCARN), he continues to have a role in post-Ebola recovery efforts in West Africa as well as global epidemic preparedness.

**DR RASHIDATU FOUAD KAMARA**

Dr Rashidatu Fouad Kamara, is at present a candidate for the Masters in Tropical and Infectious Diseases at Liverpool School of Tropical Medicine. She was involved in the Ebola response as a clinician during the Epidemic in Sierra Leone, west Africa where she admitted and treated hundreds of patients in the various units she worked. At the end of the Epidemic she was awarded a medal of recognition for her role in the outbreak. Her passion for her work has led her into writing her dissertation on survivors’ care with special interest on the health care systems.

**DR MARIE CLAIRE LAMAH**


**ASSOCIATE PROFESSOR ADAM LEVINE, MD, MPH, FACEP**

Adam Levine is an Associate Professor of Emergency Medicine at the Warren Alpert Medical School of Brown University and Director of the Brown University Global Emergency Medicine Fellowship. He received his Medical Doctorate from the University of California, San Francisco and his Masters of Public Health from the University of California, Berkeley before completing his specialty training in Emergency Medicine at the Harvard Affiliated Emergency Medicine Residency in Boston.

In recent years, Dr. Levine has responded to humanitarian emergencies in Haiti, Libya, South Sudan, and Liberia and has led research and training initiatives in Zambia, Bangladesh, Rwanda, Liberia and Sierra Leone. He currently serves as the Emergency Medicine Coordinator for the USAID-funded Human Resources for Health Program, helping to develop the first Emergency Medicine training program in Rwanda; as Primary Investigator of the Ebola Research Team for International Medical Corps (IMC), a disaster and humanitarian relief organization; and as the Director for the new Humanitarian Innovation Initiative at Brown University, whose goals are to improve the quality and professionalize the delivery of humanitarian aid worldwide. Dr. Levine also serves as the Editor-in-chief for Academic Emergency Medicine’s annual Global Emergency Medicine Literature Review. His own research focuses on improving the delivery of emergency care in resource-limited settings and during humanitarian emergencies.

**DR J. SOKA MOSES**

I graduated from the A.M. Dogliotti College of Medicine in Liberia in 2011, after achieving an undergraduate degree (BSc.) in general biology at the Cuttington University. I worked at the John F. Kennedy (JFK) referral Hospital in Monrovia, Liberia in the department of Internal medicine before
moving on to the Redemption Hospital and ELWA Hospitals where I worked in the general and obstetric emergency. Currently, I am studying control of infectious diseases at the London School of Hygiene and Tropical Medicine.

During the Ebola outbreak in West Africa (December 2013-June 2016), I worked in JFK and later MOD Ebola Treatment Unit as the clinical coordinator. The role involved clinical care of Ebola patient, IPC and staff supervision. I participated in the development of the Liberia EVD clinical management guidelines and participated in WHO consultation meetings for updating the guidelines for management of Ebola virus disease, PPE recommendations, and guidelines for clinical care of EVD survivors.

From April, 2015 when there no ongoing active transmission of Ebola in Liberia; for the first time since May 2014, I served as the Ministry of Health lead for development of clinical care for EVD survivors in Liberia. This task was performed working in collaboration with partners from the WHO and other humanitarian organizations involved in EVD survivor care at the time. I also served as Director for the Men’s Health screening program which is a joint Liberia Ministry of Health, WHO and CDC. My role was to supervise the implementation of the program. The goal of the program is to ensure all male survivors in Liberia are provided voluntary semen testing for EBOV RNA in line with the WHO recommendations and provide sexual health counselling. In addition to the benefit of semen testing to survivors and to MoH surveillance, offering sexual health counselling to male survivors in a systematic program for the first time in Liberia has proved a great model. I also worked as site physician for PREVAIL III, the Ebola virus disease natural history cohort study, a collaborative effort between the American NIH and Liberia Ministry of Health. The overall aims of the PREVAIL III study are to characterize the clinical sequelae seen in Ebola virus disease (EVD) patients and to assess whether survivors of EVD can transmit infection to household and sexual contacts.

My interest is infectious disease epidemiology.

DR PHIONA NAKYEYUNE

Dr. Phiona Nakyeyune is a Ugandan national who holds a degree in Medicine and Surgery Degree from Makerere University, Uganda. Until April 2016, she has been the Technical Lead in the training of health workers in Liberia on Infection prevention and control and case management of Ebola under the auspices of World Health Organization (WHO). Prior to joining the WHO Ebola response in West Africa in 2014, Dr. Phiona worked at the Accidents and Emergency unit at International Hospital Kampala (IHK) as an Emergency Response Doctor. She started her career as a general practitioner at Gombe hospital, Butambala District, Central Uganda (2012 - 2014) Dr. Phiona is also a national trainer in Emergency care and management of the severely ill and is actively involved in building the capacity of District and Regional Referral teams in resource constrained hospitals of Uganda in adherence to clinical management guidelines through development of reference materials and conducting of training and mentoring activities. In 2012, she was awarded the best intern award in Neurosurgery at Mulago National Referral Hospital by the Kiryabwire Foundation, Uganda.
DR PAUL REED, CAPT

CAPT Paul Reed, MD is a senior U.S. Public Health Service officer currently assigned as the Director for Doctrine and Strategic Partnerships at the Center for Global Health Engagement. CGHE has the mandate to integrate, lead and synchronize contributions of the Uniformed Services University for the Health Sciences (USUHS) to U.S. Department of Defense (DoD) Global Health Engagement (GHE) and National Security Objectives by providing a hub for GHE thought leadership and knowledge, strategic communications and outreach, operational support, research, and assimilation of education, training and planning capabilities.

CAPT Reed holds faculty appointments in Global Health, Military and Emergency Medicine, and Pediatrics at the Uniformed Services University of the Health Sciences (USU), in Bethesda, MD. He is also currently holding the position of primary investigator with principal oversight for the Disaster Preparedness Program at CGHE.

CAPT Reed held previous positions as the Deputy Director for Operations in the Division of Civilian Volunteer Medical Reserve Corps (DCVMRC) and Director for Global Health Operations for the U.S. Public Health Service, within the Office of the U.S. Surgeon General. In these capacities, his responsibilities included support for readiness of volunteers as well as coordinating the readiness and deployment of Commissioned Corps officers for domestic and international operations including humanitarian assistance, disaster relief, civic assistance, emergency response and training.

CAPT Reed is a former U.S. Navy medical officer with fourteen years in active naval service, culminating as Department Head of Pediatrics – NNMC until his separation in July 2008.

CAPT Reed has extensive experience in operational medicine and applied public health, serving in numerous capacities in both domestic and international humanitarian assistance/disaster response activities.

DR SUSAN SHEPHERD

Susan Shepherd is a general pediatrician who spent the first part of her career in rural Montana. In 2003 she began taking assignments as a field doctor with Médecins sans Frontières/Doctors without Borders on projects in Uganda, Chad and Niger. Dr. Shepherd has focused her humanitarian field-work on caring for malnourished children. In addition to field work, Dr. Shepherd has worked for MSF’s Access Campaign to Essential Medicines, coordinated the Nutrition Working Group through MSF’s International Office and worked in the MSF operations department in Paris. Dr. Shepherd has served as a consultant for the World Food Program in Central African Republic and Cameroon. Currently, Dr. Shepherd is now a senior medical advisor for Dakar-based Alliance for International Medical Action. She focuses her work on operational research in a range of humanitarian medical topics including clinical trials for Ebola infection, novel vaccine delivery strategies, to new diagnostics and integrating preventive strategies to improve maternal-child health. She also serves on the MSF-USA Board of Directors.
DR ARMAND G. SPRECHER III, MPH

Armand is an emergency physician and epidemiologist who has worked with MSF since 1997. He has been involved with filovirus outbreak response since 2000, including working in the field during the outbreaks in Uganda 2000, Angola 2005, the Democratic Republic of the Congo in 2007, and the outbreak in West Africa. Between outbreaks, aside from filovirus disease issues, Armand works mostly on health informatics. Armand has also worked with the International Medical Corps and the CDC’s Epidemic Intelligence Service.

ASSOCIATE PROFESSOR TIM UYEKI MD, MPH, MPP

Tim Uyeki is Chief Medical Officer in the Influenza Division, National Center for Immunization and Respiratory Diseases, U.S. Centers for Disease Control and Prevention (CDC). He served as the Clinical Team Lead for the CDC Ebola Response during August 2014 through March 2016, and was the Clinical Team Lead for the CDC MERS-CoV Response in 2014. He received a B.A. in Biology from Oberlin College, Oberlin, Ohio, a medical degree from Case Western Reserve University School of Medicine, and a master’s degree in public health (epidemiology) and a master’s degree in public policy from the University of California, Berkeley. He completed residencies in pediatrics at the University of California, San Francisco (UCSF), and in preventive medicine and public health at UCSF-UC Berkeley, and completed the CDC Epidemic Intelligence Service applied epidemiology fellowship program. Dr. Uyeki has worked at CDC on the epidemiology, clinical aspects, prevention and control of influenza in the U.S. and worldwide since 1998. He is also an Associate Clinical Professor in the Department of Pediatrics, UCSF, and an Adjunct Associate Professor in the Hubert Department of Global Health, Rollins School of Public Health, Emory University. Dr. Uyeki has served as a consultant to WHO on clinical and epidemiological issues related to seasonal, zoonotic, and pandemic influenza, MERS-CoV, SARS-CoV, and Ebola virus disease.