Disclaimer:

In order to enhance its management of conflicts of interest as well as strengthen public trust and transparency in connection with WHO meetings and activities involving the provision of technical/normative advice, the names and brief biographies of individuals ("Published Information") being considered for participation in a WHO-convened Guideline Development Group are disclosed for public notice and comment.

The Published Information is provided by the experts themselves and is the sole responsibility of the individuals concerned. WHO is not responsible for the accuracy, veracity and completeness of the Published Information provided. Furthermore, in no event will WHO be responsible or liable for damages in relation to the use of, and reliance upon, the Published Information.

The comments received by WHO through the public notice and comment process are treated confidentially and their receipt will be acknowledged through a generic email notification to the sender. Comments brought to the attention of WHO through this process are an integral component of WHO’s conflict of interest assessment process and are carefully reviewed. WHO reserves the right to discuss information received through this process with the relevant expert and disclose to this expert the name and affiliation of the provider of such information. Upon review and assessment of the information received through this process, WHO, in its sole discretion, may take appropriate management action in accordance with its policies.

Guideline Development Groups provide technical and/or normative advice and recommendations to WHO. Participation in a Guideline Development Group convened by WHO does not necessarily mean that the views expressed by the expert concerned are shared by WHO and/or represent the decisions or stated policy of WHO.

The list of participating experts, a summary of relevant interests disclosed by such experts, and any appropriate mitigation measures taken by WHO relating to the management of conflicts of interests, will be reported publically in accordance with WHO policies.
Surname, first name(s) and initial: Bahwere, Paluku

Institutional affiliation(s): Valid International and Centre of Biostatistics, Epidemiology and clinical trials at the School of Public Health, Free University of Brussels

Academic degrees: Doctor of Philosophy in Public Health; Master of Public Health; Postgraduate degree in Paediatrics; Doctor of Medicine

City and country of primary residence: Genval, Belgium

Biography:
Dr Bahwere worked as a clinician in both resources-constrained and resource-rich countries. He has extensive experience in managing, implementing and evaluating nutrition interventions. He has more than 25 years of research in undernutrition and infectious diseases in low- and middle-income countries. Topics covered in recent research include acute malnutrition (moderate and severe forms), stunting (prevention), HIV-related wasting in children and adults, body composition analysis and epidemiology and risk factors of infectious diseases of undernourished children. His training and teaching experience consist of on-the-job training of first line workers, nurses, nutritionists and medical doctors and formal training of Master and PhD students. He has participated in the development of several national and global protocols or guidelines.

Surname, first name(s) and initial: Castro, Mary Christine R

Institutional affiliation(s): Executive Director, Nutrition Center of the Philippines; Vice President, Nutri-Foods Corporation; Vice President, NCP Publishing Corporation; Member, Regional Nutrition Committee, National Capital Region; Member, Regional Nutrition Committee, Region VI-B

Academic degrees: Doctor of Medicine; Bachelor of Science in Basic Medical Sciences

City and country of primary residence: Santa Rosa City, Laguna, Philippines

Biography:
Dr Castro has more than 20 years of experience in development work. As a community physician, she conducted community clinics, trained volunteer health workers, and contributed towards the development of training modules for volunteer health workers on basic health skills including first aid, basic anatomy and physiology, and diagnosis and home management of common diseases. In the field of infant and young child nutrition, she led the Nutrition Center of the Philippines team in training peer counsellors on breastfeeding and stakeholders in five cities and towns in the Philippines through a contract with the Department of Health. She also led the project teams contracted by UNICEF Philippines to harmonize training modules for community volunteers, health workers, and pre-service training of medical and allied health professionals, and to conduct the final survey for the European Union-funded Maternal and Young Child Nutrition Security Initiative in Asia. She was part of the team that conducted the review of the
mandatory food fortification component of the Philippine Food Fortification Program. She was involved in a collaborative research with ETH-Zurich on iodine deficiency, and in a randomized controlled trial evaluating impact of micronutrient powders on urinary iodine levels among Filipino preschool children.

Surname, first name(s) and initial: Coovadia, Hoosen

Institutional affiliation(s): Director of Maternal, Adolescent and Child Health, Health Systems, University of the Witwatersrand

Academic degrees: Doctor of Medicine; Master of Science in Immunology; Fellowship of the College of Physicians of South Africa in Paediatrics; Bachelor of Medicine, Bachelor of Surgery

City and country of primary residence: Johannesburg, South Africa

Biography:

Dr Coovadia has considerable experience in the field of HIV, clinical paediatrics, public health and research in developing countries, including clinical trials. His research has been in the fields of malnutrition, kidney disorders and infectious diseases, especially mother-to-child transmission of HIV through breastfeeding. He and his co-investigators were the first to show the beneficial effect of exclusive breastfeeding on mother-to-child transmission of HIV-1. He has studied and published on the impact of micronutrients in children and child health. He is the recipient of numerous prestigious awards and honorary doctorates. He chaired the Committee on Maternal and Child Health in South Africa’s first democratic government, was appointed to the President’s National Planning Commission from 2000 to 2015. He has mentored fifteen PhDs, and 8 Masters in Science degree students. He was the International Vice-Chair of a National Institute of Health Network on Paediatric HIV, and held editorial positions on a number of key journals, and regularly review papers for The Lancet and often assess proposals from the Wellcome Trust and other agencies. He has chaired some major international HIV Conferences and was the chair of the prestigious XIIIth International AIDS Conference held in Durban, South Africa in 2000.

Surname, first name(s) and initial: De-Regil, Luz Maria

Institutional affiliation(s): Director of Research and Evaluation and Chief Technical Advisor, Micronutrient Initiative

Academic degrees: Bachelor Degree in Nutrition and Food Sciences; Master of Sciences in Nutrition; Doctorate of Sciences of Public Health and Epidemiology

City and country of primary residence: Ottawa, Canada

Biography:

Dr De-Regil has 15 years of international work experience in maternal and infant nutrition, public health research and policy making, and hands-on experience in managing and leading multi-disciplinary teams. As the Director of Research and Evaluation at the Micronutrient Initiative (MI), she is responsible for MI’s
surveillance, implementation research, and programme evaluation strategies. She leads the generation and translation of new evidence to influence policy and practice globally and also plays an active role in the strategic management of MI. She has authored multiple articles in international refereed scientific journals and acts as peer reviewer, editorial board member and advisor for several publications. She also serves as an advisor on ethics, methodology and public health nutrition to regional and global organizations, including WHO and its regional offices, and the International Federation of Gynaecology and Obstetrics. Her work as Co-chair of the Micronutrient Forum and as a Board Member for the Iodine Global Network and Food Fortification Initiative help facilitate the communication and coordination among nutrition actors and across nutrition-sensitive sectors. Prior to joining MI, she held positions at the National Institute of Perinatology and Universidad Iberoamericana in Mexico; the Children’s Hospital Research Institute in Oakland, CA, USA; and the World Health Organization in Geneva, Switzerland.

Surname, first name(s) and initial: Durão, Solange  
Institutional affiliation(s): Senior Scientist, Cochrane South Africa, South African Medical Research Council  
Academic degrees: Master in Public Health; Bachelor of Science in Dietetics  
City and country of primary residence: Cape Town, South Africa  
Biography:  
Ms Durão is a senior scientist at Cochrane South Africa, South African Medical Research Council, where she has been working since 2013. She completed her Master’s degree in Public Health specializing in epidemiology at the University of Cape Town in 2011 and her Bachelor of Science in Dietetics degree at the University of the Western Cape in 2006. Her research interests include public health nutrition and ensuring nutrition-related policies and practices that are based on systematic reviews of the best available evidence. Her current research projects include Cochrane systematic reviews addressing access to food in low- and middle-income countries, screening for type 2 diabetes, and micronutrient supplementation in HIV-infected adults, as well as an overview of systematic reviews of interventions to improve food security. She collaborates actively with other researchers in methods research about nutrition systematic reviews and in developing and implementing relevant research for the African continent. She is interested in capacity building activities to increase and improve the conduct and use of systematic reviews, and promoting evidence-based practice, in the African continent. As part of this, she has been involved in facilitating workshops in the region about evidence-based health care and systematic reviews.

Surname, first name(s) and initial: El Arifeen, Shams  
Institutional affiliation(s): Senior Director and Senior Scientist, Division of Maternal and Child Health, International Centre for Diarrhoeal Disease Research, Bangladesh
Academic degrees: Doctor of Public Health; Master in Public Health; Bachelor of Medicine, Bachelor of Surgery

City and country of primary residence: Dhaka, Bangladesh

Biography:
Dr El Arifeen is the first Senior Director of the newly established Division of Maternal and Child Health at the International Centre for Diarrhoeal Disease Research, Bangladesh. He is a Professor at the James P Grant School of Public Health at the BRAC University in Bangladesh, where he teaches epidemiology. He is trained in medicine, public health, nutrition and epidemiology and holds a MBBS from Dhaka Medical College and a Masters in Public Health and Doctoral Degree in Public Health from Johns Hopkins University. He has published over 200 scientific articles in peer-reviewed journals. His interests are in maternal, newborn and child health, nutrition and development, where he has worked for nearly 30 years, particularly focusing on community and facility-based evaluations of interventions and programmes that address the commonest causes of illness and death among mothers and children, implementation research to improve delivery of services as well as developing monitoring systems. He actively participates in national efforts within Bangladesh to scale up evidence-based interventions. He has served on a number of Bangladesh’s technical and advisory committees.

Surname, first name(s) and initial: Hassani Ep El Ati, Jalila

Institutional affiliation(s): Head of Department and Researcher in the National Institute of Nutrition and Food Technology

Academic degrees: Doctor of Philosophy in Physiology

City and country of primary residence: Tunis, Tunisia

Biography:
Dr El Ati is a Tunisian national. Her current main activities and responsibilities include nutrition physiology educator, researcher on public health nutrition, Head of the Studies and Planning Department, Coordinator of the SURVEN Research Laboratory (Nutrition Surveillance and Epidemiology in Tunisia; www.surventunisie.rns.tn). She is currently conducting large epidemiological surveys to assess nutritional status, food customs, food consumption, health problems and their determinants. Her current research focuses on nutritional education of women, nutrition and food surveillance, nutritional and epidemiological transition, obesity prevention, teen lifestyles, anaemia, vitamin A status and iodine deficiency.

Surname, first name(s) and initial: Haider, Rukhsana

Institutional affiliation(s): Chairperson, Training and Assistance for Health and Nutrition (TAHN) Foundation
**Academic degrees:** Bachelor of Medicine, Bachelor of Surgery; Master of Science in Human Nutrition; International Board Certified Lactation Consultant; Doctor of Philosophy in Public Health Nutrition

**City and country of primary residence:** Dhaka, Bangladesh

**Biography:**

Dr Haider is a physician, an international board-certified lactation consultant and a public health nutritionist. She received a Master in Sciences in 1990 and her PhD in 1998 from the London School of Hygiene and Tropical Medicine, United Kingdom. She is the Founder and Chairperson of the Training and Assistance for Health & Nutrition Foundation in Bangladesh, and is currently co-chair of the World Alliance for Breastfeeding Action (WABA) Steering Committee and Chair, Civil Society Alliance for Scaling Up Nutrition in Bangladesh. Previously, she was Regional Adviser for Nutrition at the WHO South-East Asia Regional Office in New Delhi, India from 2001 to 2006; Associate Chief of Party for the Urban Family Health Partnership and John Snow Inc. from 2000 to 2001; and Associate Scientist, International Centre for Diarrhoeal Disease Research, Bangladesh from 1984 to 2000. For a few years during the latter period, she was deputed first to UNICEF Bangladesh, to set up the Baby-friendly Hospital Initiative and then to the campaign for protection, promotion and support of breastfeeding to continue as an international trainer and assessor.

**Surname, first name(s) and initial:** Israel, Anne-Dominique

**Institutional affiliation(s):** Senior Nutrition and Health Advisor, Action Contre la Faim

**Academic degrees:** Master in Public Health; Bachelor of Science in Public Health and Health Promotion; Nursing State Diploma

**City and country of primary residence:** Paris, France

**Biography:**

Ms Israel-de Monval has more than 12 years professional experience in international relief and development in the area of management, supervision and support to public health nutrition programmes and 8 years of experience in Action Contre la Faim headquarters where she is in charge of the nutrition and health sector. She has extensive experience in networking and coordination at global and national level with a broad range of actors working in public health nutrition. Her two main interests are health systems strengthening and capacity development in the field of nutrition. In most of the countries where she is working, the ministries of health are facing great challenges in delivering basic health packages including nutrition elements.

**Surname, first name(s) and initial:** Jack, Susan J

**Institutional affiliation(s):** Senior Research Fellow, University of Otago
Academic degrees: Fellow of the New Zealand College of Public Health Medicine; Doctor of Philosophy in Epidemiology; Master of Public Health and Tropical Medicine; Diploma in Paediatrics; Bachelor of Medicine, Bachelor of Surgery

City and country of primary residence: Dunedin, New Zealand

Biography:
Dr Jack is a medical graduate of the University of Otago, with a Postgraduate Diploma in Paediatrics, Masters in Public Health in Tropical Medicine, PhD in Epidemiology, and is a public health physician and Fellow of the New Zealand College of Public Health Medicine. She worked in Phnom Penh, Cambodia for 16 years undertaking community health and development work among urban poor communities. She was employed by WHO, Cambodia working in the area of child survival, nutrition, maternal and newborn health, and led a large multiple micronutrient powder effectiveness trial in rural Cambodia. Since returning to New Zealand, she has continued to work in the area of reproductive, maternal, newborn and child health as a consultant for WHO in the Solomon Islands, Cambodia and Viet Nam. She is currently a senior research fellow at the Centre for International Health and senior lecturer at the Department of Preventive & Social Medicine, University of Otago, teaching public health and health policy and systems. Her interests include effective translation of evidence into policy, implementation, and evaluation of public health programmes. Her research interests include anaemia and micronutrient deficiencies, child under-nutrition, the impact of infant and young child feeding practices, and effectiveness of maternal and child health and nutrition interventions.

Surname, first name(s) and initial: Jefferds, Maria Elena D

Institutional affiliation(s): Behavioural Scientist, Nutrition Branch, Division of Nutrition, Physical Activity and Obesity, Centers for Disease Control and Prevention

Academic degrees: Doctor of Philosophy in Medical Anthropology; Master of Arts in Medical Anthropology; Bachelor of Arts in Anthropology and Spanish

City and country of primary residence: Georgia, United States of America

Biography:
Dr Jefferds is a behavioural scientist with the International Micronutrient Malnutrition Prevention and Control Team in the Division of Nutrition, Physical Activity and Obesity at the United States Centers for Disease Control and Prevention. She has expertise in behavioural science, surveillance, monitoring and evaluation of micronutrient programmes and has led the design and implementation of national micronutrient surveys and nutrition surveillance systems. She has extensive experience advising on the design, implementation and evaluation of multiple micronutrient powder programmes, and has led initiatives to develop country capacity to design and implement programmes through collaborations with partners. She has led the development of monitoring manuals for home fortification and biannual vitamin A supplementation at district and national levels. She also collaborates with WHO on the development of
monitoring and evaluation indicators for micronutrient programmes, including flour fortification, salt iodization, vitamin A supplementation, multiple micronutrient powders, and infant and young child nutrition.

Surname, first name(s) and initial: Nzila, Alexis

Institutional affiliation(s): Associate Professor, Department of Biology, King Fahd University of Petroleum and Minerals

Academic degrees: Doctor of Philosophy in in Parasitology; Master of Science in Biochemistry and Molecular Biology; Bachelor of Science in Biochemistry

City and country of primary residence: Dhahran, Saudi Arabia

Biography:

Dr Nzila is trained as a biochemist and parasitologist. He obtained his PhD in 1995 at the University of Montpellier, France, and had been working on malaria in Kenya with the Kenya Medical Research Institute, the University of Liverpool and the University of Oxford from 1996 to 2011. He joined the King Fahd University of Petroleum and Minerals University in 2012, and is part of the newly-formed Department of Biology as an Associate Professor. He has initiated new research projects on environmental microbiology by investigating and characterising microorganisms that biodegrade various pollutants, while pursuing his scientific interest on folate metabolism in malaria. His research focuses on the understanding of the mechanism of resistance to pyrimethamine/sulfadoxine and chlorproguanil/dapsone, two antifolate drugs used to treat malaria. He has made substantial contribution in understanding the mechanism of antifolate resistance and tracking drug resistance against malaria.

Surname, first name(s) and initial: Trehan, Indi

Institutional affiliation(s): Assistant Professor, Department of Paediatrics Washington University in Saint Louis

Academic degrees: Doctor of Medicine; Master of Public Health; Diploma in Tropical Medicine and Hygiene

City and country of primary residence: Saint Louis, United States of America

Biography:

Dr Trehan is trained in paediatric infectious diseases and paediatric emergency medicine. He conducts research in acute and chronic malnutrition in children and pregnant women, environmental enteric dysfunction, the role of the enteric microbiome in child growth and nutrition, and the link between infectious diseases and malnutrition. As an active clinician, he has a strong interest in improving the diagnosis and treatment of tropical infectious diseases, having conducted studies in tuberculosis, HIV, malaria, and Ebola virus.

Surname, first name(s) and initial: Khanh Van, Tran
Institutional affiliation(s): Vice Head of Micronutrients, the National Institute of Nutrition Vietnam

Academic degrees: Doctor of Medicine; Master of Public Health; Doctor of Philosophy in Nutrition and Health Education (candidate)

City and country of primary residence: Hanoi, Vietnam

Biography:
Dr Khanh Van is a medical doctor working at the National Institute of Nutrition in Viet Nam where she is Vice Head of Micronutrients. Over the past 22 years, he has worked in a wide variety of professional capacities from health and nutrition education, research of health behaviours to micronutrient deficiencies research, prevention and policies development. He is the Coordinator of the National Strategies for Food Fortification project in Viet Nam, which is a large project in terms of both implementation range and policies development. In the past, he was a key member of a working group for the development of national strategies for nutrition, national plans of action for nutrition, guidelines for the control of micronutrient deficiencies, infant and young child feeding and the implementation of social marketing programmes. All documents produced received approvals from either the Prime Minister or Ministry of Health and played a crucial role in helping health systems in Viet Nam for developing, implementing and evaluating health care programmes. He received a Master of Public Health at the University of Massachusetts where he is also completing his PhD course work. His activities related to food fortification have been conducted as part of his doctoral work at Montpellier University.

Surname, first name(s) and initial: Wefwafwa, Terrie

Institutional affiliation(s): Independent Consultant, Chief Executive Officer of Karibuni-Kenya

Academic degrees: Bachelor of Education (honours) in Home Science and Nutrition

City and country of primary residence: Bungoma County, Kenya

Biography:
Ms Wefwafwa is a graduate nutritionist who previously worked with the Ministry of Health in Kenya, in various capacities rising to Head of the Division Nutrition. She provided leadership that resulted into Kenya being the only country on track on all World Health Assembly global nutrition indicators in Eastern Africa. She now works as an Independent Consultant, Chief Executive Officer of Karibuni-Kenya a local NGO whose focus is Health, Nutrition and Food Security and is also chairman International Baby Food Action Network in Africa. She was a member of the drafting team for the following policies and legislations; Kenya Food and Nutrition Security Policy, Breastmilk Substitutes (Regulation and Control) Act and Food Fortification Regulations. She carried out technical review of several national guidelines for Kenya including National Nutrition Action Plan, Maternal Infant Young Child and Nutrition Strategy, national guideline for Healthy Diets and Physical Activity, Multiple Micronutrient Powders Policy guideline, and the
National Technical Guidelines for Micronutrient Deficiency Control. She is a co-author of the published Integration to Implementation and the Micronutrient Forum: A coordinated approach for global nutrition. Ms Wefwafwa retired from active public service in 2014. Through Karibuni Kenya, she is able to continue advocating for nutrition actions as she believes good nutrition is the cornerstone of unleashing human capital potential.

Surname, first name(s) and initial: Younes, Maged

Institutional affiliation(s): Independent international expert

Academic degrees: Doctor of Philosophy in Physiological Chemistry and Biochemistry; Master of Science in Physiological Chemistry and Biochemistry; Doctorate in Science Degree in Toxicology and Biochemical Pharmacology

City and country of primary residence: Mies, Switzerland

Biography:
Dr Younes holds a Master in Sciences and a PhD in Physiological Chemistry and Biochemistry, and the degree of Doctor of Science in Toxicology and Biochemical Pharmacology. Following an academic career as a researcher and Professor of toxicology and biochemical pharmacology in Germany, he joined the WHO and a two-year secondment to the United Nations Environment Programme where he managed and directed various technical and policy programmes, including chemical safety, environmental health, environmental conventions, governance and external relations, and food safety and zoonoses. Since his retirement in 2013, he has been working as an independent international expert in global public health. Among others, he is currently a Member of the Food Additives and Nutrient Supplements Panel of the European Food Safety Agency, and Chair of the working groups on Nitrates and Nitrites and Weight of Evidence. He is an Adjunct Professor Emeritus of toxicology and biochemical pharmacology, University of Lübeck, Germany, and a Visiting Professor of environmental and occupational health and sustainability at the Robert-Gordon University in Aberdeen, Scotland.

Surname, first name(s) and initial: Yunis, Khalid

Institutional affiliation(s): Head, Division of Neonatology, Department of Paediatrics and Adolescent Medicine, American University of Beirut

Academic degrees: Fellow in Neonatal and Perinatal Medicine; Paediatric Residency; Doctor of Medicine

City and country of primary residence: Beirut, Lebanon

Biography:
Dr Yunis is a professor in paediatrics, and Head of the Division of Neonatology at the Department of Pediatrics and Adolescent Medicine at the American University of Beirut. He has established in 1998 the National Collaborative Perinatal Neonatal Network, a multidisciplinary surveillance system, dedicated to improve perinatal and neonatal health. In 2012, he established in collaboration with the Ministry of
Public Health for a national birth defects surveillance system funded by the US Centers for Disease Control and Prevention, which is unique in the region. He has worked closely with local, regional, and global collaborators including the March of Dimes, CDC, WHO, UNICEF, Lebanese Ministry of Public Health, Lebanese Ministry for Higher education, Lebanese Society for Obstetrics and Gynecology, Lebanese Pediatric Society, and others. He took his Medical Degree at the American University of Beirut, and completed his residency and fellowship in paediatrics and neonatology at McGill University in Montreal, Canada. He has contributed over 50 articles to the scientific literature. His area of interest is the continuum of care from preconception to neonatal outcomes.