

Micronutrient Powders Consultation

Lessons Learned for Operational Guidance

PARTICIPANT GUIDE

October 19–20, 2015 | Washington, DC



The Strengthening Partnerships, Results, and Innovations in Nutrition Globally (**SPRING**) project is a five-year USAID-funded Cooperative Agreement to strengthen global and country efforts to scale up high-impact nutrition practices and policies and improve maternal and child nutrition. The project is managed by JSI Research & Training Institute, Inc., with partners Helen Keller International, the Manoff Group, Save the Children, and the International Food Policy Research Institute.

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SPRING
Strengthening Partnerships, Results,
and Innovations in Nutrition Globally

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Agenda

Day 1: Monday October 19, 2015

08:00-08:30	Registration & Coffee	
INAUGURAL SESSION Moderator: Sorrel Namaste, SPRING [1 hour]		
08:30-08:45	Welcome and introductions	Kellie Stewart, USAID
08:45-09:15	Setting the context of MNPs in public health nutrition programming	Omar Dary, USAID
09:15-09:30	Objectives and expected results	Christina Nyhus Dhillon, SPRING
SESSION ONE: Summarizing the global context Moderator: Sorrel Namaste, SPRING [1 hour + 15 min]		
09:30-10:00	Overview of biological impacts of the use of MNP's in trials and programs	Michael Zimmermann, ETH, Switzerland
10:00-10:15	Programmatic experiences with MNPs	Ruth Situma, UNICEF
10:15-10:30	Existing guidance around MNPs	Stanley Zlotkin, SGHI, Canada
10:30-10:45	Q & A	Moderator
10:45-11:00	Break	
SESSION TWO: Brief of countries' experiences Moderator: Tim Quick, USAID [2 hours + 15 min]		
11:00-11:15	R4D MNP 2013 report: key recommendations (via Webex)	Kanika Bahl, R4D
11:15-11:30	PSI/UNICEF delivery & social marketing research	Ietje Reerink, PSI
11:30-11:45	Q & A	Moderator
11:45-12:15	News from the field I (country-level experts)	Narantsetseg Tsevegsuren, Claudia Roca & Raisul Haque
12:15-12:45	News from the field II (country-level experts)	Generose Mulokozi, Gustavo Tapia, Cholpon Imanalieva & Minarto Noto Sudarjo
12:45-13:15	General discussion	Moderator

13:15-14:15	Lunch	
SESSION THREE: Face-to-face discussion of working groups Moderator: Christina Nyhus Dhillon, SPRING, with working group chairs [3 hours plus]		
14:15-17:30	Working group break-out (deliberation) starting with 10-minute overview by moderator	Participants with their corresponding chairs (3)

Day 2: Tuesday October 20, 2015

08:00-09:00	Working group finalization of presentations (optional)	Working group members
SESSION FOUR: Reports of first day: working groups and plenary discussion Moderator: Christina Nyhus Dhillon, SPRING, with co-moderators [5 hours + 1 hour lunch]		
09:00-09:15	Recap of Day 1	Ruben Grajeda, PAHO/WHO
09:15-10:45	Working Group 1: report back (30 mins) Plenary discussion (60 mins)	Presenter: Rolf Klemm, HKI Co-Moderator/Discussant: Diane DeBernardo, USAID
10:45-11:00	Break	
11:00-12:30	Working Group 2: report back (30 mins) Plenary discussion (60 mins)	Presenter: Rahul Rawat, IFPRI Co-Moderator/Discussant: Sally Abbott, USAID
12:30-13:30	Lunch	
13:30-15:00	Working Group 3: report back (30 mins) Plenary discussion (60 mins)	Presenter: Lynnette Neufeld, GAIN Co-Moderator/Discussant: Melanie Thurber, USAID
15:00-15:15	Break	
SESSION FIVE: Topics for the future Moderator: Gwyneth Cotes, SPRING [1 hour + 45 minutes]		
15:15-15:30	Report back: USAID/FANTA LNS meeting	Zeina Maalouf-Manasseh, FANTA/FHI360
15:30-15:45	Report on USAID/TUFTS Food Aid Quality Review: REFINE Project	Irwin Rosenberg, TUFTS
15:45-16:45	Priorities for operational research (facilitated discussion)	Maria Elena Jeffords, CDC
16:45-16:55	Closing Remarks	Omar Dary, USAID
16:55-17:00	Adjourn	Gwyneth Cotes, SPRING

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Concept Note

Background

Meeting the nutritional needs of young children is a particularly important issue in global health, as insufficient nutrition during periods of rapid growth can have serious effects on health and other outcomes.¹ The long-term solution for solving micronutrient inadequacy is ensuring a sustainable and diverse diet through food-based approaches. However, due to different ecological, economic, and cultural factors, many times it is necessary to complement the nutritional value of the diet using specific interventions, such as food fortification or supplementation.² One promising strategy when the coverage or efficiency of food fortification are limited is the use of supplements in the form of micronutrient powders (MNP) that are consumed mixed in the child's food, in a strategy popularly called 'point-of-use' fortification or 'home-fortification'.

Evidence from efficacy studies has shown that MNPs improve iron status and reduce anemia.³ However, some studies have also suggested negative unintended consequences due to the use of MNPs in regions affected with malaria,⁴ and more recently, related to intestinal infections.⁵ For this reason, the WHO currently recommends providing MNPs in conjunction with malaria control measures. An active Home Fortification Technical Advisory Group (HF-TAG) has created an extensive library of MNP guidance and tools, as well as an active community of practice to address programmatic guidance around MNPs since 2009. As of 2011, 22 countries were implementing MNP programs,⁶ and by 2013, the number doubled to 43 with an additional 21 countries planning to start in 2014.⁷ Although most of these interventions are small in scope, MNPs reportedly have been delivered at scale in 14 countries.

¹ Bhutta ZA (2008) Micronutrient needs of malnourished children. *Curr Opin Clin Nutr Metab Care*. 2008 May;11(3):309-14.

² Bhutta 2013 Evidence-based interventions for improvement of maternal and child nutrition: what can be done and at what cost? *Lancet*. 2013 Aug 3;382(9890):452-77.

³ De-Regil LM, Suchdev PS, Vist GE, Walleser S, Peña-Rosas JP (2011) Home fortification of foods with multiple micronutrient powders for health and nutrition in children under two years of age (Review) *Evid.-Based Child Health (Cochrane Review Journal)* 8:1: 112–201 (2013)

⁴ Salam et al. Effectiveness of Micronutrient Powders on Women and Children *BMC Public Health* 2013, 13(Suppl 3):S22

⁵ Jaeggi T, Kortman GAM, Moretti D, et al. Gut Published Online First: 20 Aug 2014 doi:10.1136/gutjnl-2014-307720

⁶ UNICEF/CDC/HFTAG Global Assessment Report 2011- Data on MNPs HTFAG.org assessed 25/06/2015

⁷ UNICEF Nutridash 2013 Global Report of the Pilot Year

On behalf of USAID, the Strengthening Partnerships, Results, and Innovations in Nutrition Globally (SPRING) project is organizing an MNP consultation with the purpose of providing contextualized operational guidance to USAID missions. The aim of this consultation is to summarize, review, and analyze real experiences in MNP programming to children 6-23 months of age. This consultation will not include discussions about biological impact or formulation of MNP's, which, although very important, are topics more suitable for scientific gatherings.

Objectives

1. Using existing documents, reports, and country experiences to identify and summarize experiences, with an emphasis on lessons learned from the field within MNP programming.
2. Define essential logistic components that should be included in any MNP program to ensure national-ownership, context specificity, and sustainability.
3. Prioritize an MNP operational research agenda.

Expected Results

1. Final working papers on experiences and lessons learned in MNP programming.
2. Consultation report that summarizes shared understanding of logistic considerations in introducing MNPs in the context of USAID programming, operational research gaps, and highlights next steps
3. Inputs for a USAID implementation guidance brief on how to introduce MNPs as part of infant and young child feeding interventions

Working Groups

All consultation participants will be integrated into one of three working groups and led by working group chair. The topics that will be covered are not limited to, but will include—

- procurement and production
- policy processes
- national supervision of quality
- coordination and integrations
- budgeting and costing
- delivery platforms
- storage, transportation, and distribution
- SBCC messaging and advertising strategies
- product 'use-before date' and waste
- review of acceptance, rejection, and perception of the consumers, health professionals, and opinion-

makers

- monitoring and surveillance framework
- support from public health professionals and involvement of local researchers in public health
- when and if programs may move to scale
- combination with other nutrition interventions

Each working group will meet via teleconference for two to three months before the consultation, led by a chair. All working group members will contribute to the paper in some way and will be responsible to the chair.

SPRING staff will participate in working group teleconferences and serve as rapporteurs; one SPRING staff member will sit across all working groups to ensure consistency across papers. The working groups will review and summarize the current experiences and lessons learned. There is no one-size-fits-all operational guidance, as contexts vary greatly (government systems, population needs, existing programs). Therefore, the working groups will also offer a range of considerations for operationalizing MNPs based on contextual factors.

More specifically the working groups will—

1. identify and summarize experiences, using existing documents, reports, and country experiences, with an emphasis on lessons learned from the field on MNP programming
2. define essential logistic components that should be included in any MNP program to ensure national ownership, context specificity, and sustainability (for each component and activity, estimation of cost efficiencies, time, and human resource requirements will be made)
3. identify areas of programming where operational research is still needed.

Meeting Agenda

The two-day face-to-face meeting will take place in Washington, DC on October 19 and 20. The meeting will allow an opportunity to discuss the findings of the working groups, and learn directly from country representatives their experiences from real programs. The published and oral information will be useful to propose USAID-specific guidance based on lessons learned. During the consultation, working groups will deliberate within their respective groups to refine the white papers and share and discuss draft content with all of the meeting participants. Additional presentations and panels will highlight specific program challenges and contextual factors affecting operationalization of MNPs. The preliminary program included in this document was designed to provide ample time for discussion among the participants, to hear directly from country colleagues about their experiences and gather information from their corresponding countries, and to allow everyone to ask questions and provide comments to all subjects included in this consultation.

Participants

The Consultation will bring together 30-40 country-level policy makers and program managers, USAID staff, and global MNP advisors to discuss lessons learned in MNP implementation. There will be a strong emphasis on country-level participation.



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Participant List

Full Name	Affiliation & Country	Attending Face-to-Face Meeting
Working Group 1 Members		
Canahuati, Judy	USAID, USA	Yes
DeBernardo, Diane	USAID, USA	Yes
Guyondet, Christophe	GAIN Premix Facility, Switzerland	No
Hubbell Melgarejo, Carrie (Rapporteur)	SPRING, USA	Yes
Klemm, Rolf (Chair)	HKI, USA	Yes
Marcus, Shelley	Tufts University, USA	Yes
Possolo, Edna	Government of Mozambique	No
Quick, Timothy	USAID, USA	Yes
Roca, Claudia	JSI, USAID DELIVER PROJECT, Guatemala	Yes
Schauer, Claudia	The Hospital for Sick Children, Canada	Yes
Situma, Ruth	UNICEF, USA	Yes
Sunley, Nigel	Sunley Consulting, South Africa	Yes
Tapia Terán, Gustavo Iván	Independent Consultant, Bolivia	Yes
Zlotkin, Stanley	SGHI, Canada	Yes
Working Group 2 Members		
Abbott, Sally	USAID, USA	Yes
Aburto, Nancy	WFP, Italy	Yes
Bontrager, Elizabeth	USAID, USA	Yes
Chaudhery, Deepika Nayar	Micronutrient Initiative, India	No
Griffiths, Marcia	Manoff Group, USA	Yes
Haque, Mohammad Raisul	BRAC, Bangladesh	Yes
Jefferds, Maria Elena	CDC/IMMPaCT, USA	Yes
Kroeun, Hou	HKI, Cambodia	No
Namaste, Sorrel (Rapporteur)	SPRING, USA	Yes
Rawat, Rahul (Chair)	IFPRI, Senegal	Yes
Reerink, Ietje	PSI, Madagascar	Yes

Full Name	Affiliation & Country	Attending Face-to-Face Meeting
Working Group 3 Members		
Bonvecchio Arenas, Anabelle	National Institute of Public Health, Mexico	No
D'Agostino, Alexis (Rapporteur)	SPRING, USA	Yes
Grajeda, Ruben	PAHO/WHO, USA	Yes
Gray, Elaine	USAID, USA	Yes
Imanalieva, Cholpon	UNICEF, Kyrgyzstan	Yes
Irizarry, Laura	Independent Consultant, Peru	No
Maalouf-Manasseh, Zeina	FANTA, USA	Yes
Mulokozi, Generose	Government of Tanzania	Yes
Neufeld, Lynnette (Co-chair)	GAIN, Switzerland	Yes
Noto Sudardjo, Minarto	Millennium Challenge Account, Indonesia	Yes
Thurber, Melanie	USAID, USA	Yes
Tsevegsuren, Narantsetseg	WVI, Mongolia	Yes
Tumilowicz, Alison (Co-chair)	GAIN, Switzerland	No
Zimmermann, Michael	ETH, Switzerland	Yes
Non-Working Group Participants		
Bahl, Kanika	R4D, USA	No
Cotes, Gwyneth	SPRING, USA	Yes
Dary, Omar	USAID, USA	Yes
Makonnen, Raphael	USAID, USA	Yes
Mouw, Traci	USDA, USA	Yes
Nyhus Dhillon, Christina	SPRING Consultant, USA	Yes
Rosenberg, Irwin	Tufts University, USA	Yes
Sarkar, Danya	SPRING, USA	Yes
Schaan, Michelle	USAID, USA	Yes
Stewart, Kellie	USAID, USA	Yes
Wetzel-Chen, Carolyn	MCC, USA	Yes



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Participant Biographies

Sally Abbott, USAID, USA

Dr. Sally Abbott is a Nutrition Advisor in the Bureau for Food Security at USAID. Prior to this role, she was a Nutrition and Food Security Advisor in the Bureau for Global Health. She has been at USAID since 2010. Dr. Abbott serves as a member of the Agency's nutrition team, provides strategic leadership and oversight of agency nutrition programs, and provides technical assistance to field missions on the design and implementation of comprehensive nutrition programs. Prior to coming to USAID, Dr. Abbott worked for various NGOs in a consulting capacity. Previously she spent four years at the Feinstein International Center at Tufts University. She holds a Doctorate of Philosophy and a Master of Science from Tufts University Friedman School of Nutrition and Science Policy.

Nancy Aburto, UN World Food Programme, Italy

Dr. Nancy Aburto has more than 12 years of experience working globally in the field of nutrition. Her experiences include programming to reduce micronutrient deficiency; integrated maternal, infant and young child nutrition programming; implementing nutrition programs at scale; monitoring and evaluation of nutrition programs; evaluation of surveillance systems; nutritional epidemiology; and combating the dual burden of under- and over-nutrition. Dr. Aburto currently works as a Nutrition Advisor at the UN World Food Programme headquarters in Rome, Italy. Previously, she was a scientist in the Department of Nutrition for Health and Development at the World Health Organization. Dr. Aburto also spent several years at the US Centers for Disease Control and Prevention, and the Mexican National Institute of Public Health. Dr. Aburto received her Doctorate in Nutrition and Health Sciences from Emory University. She also holds a Master's Degree from the University of Georgia and a Bachelor's Degree in Chemistry from Duke University.

Kanika Bahl, Results for Development Institute (R4D), USA

Kanika Bahl is a Principal and Managing Director at Results for Development Institute (R4D), where she established and leads the Market Dynamics practice. R4D's Market Dynamics practice has developed strategies to achieve over a billion dollars in efficiency savings, and ensure sustainable availability of high-quality products to address malnutrition, AIDS, malaria, and neglected diseases. In this role, Ms. Bahl has successfully engaged with Fortune 500 companies, major global financiers including the Global Fund and the Gates Foundation, and country governments across Africa, Asia, and Latin America. Her work has been cited in various international publications including *The Guardian* and *Huffington Post*, and she is a frequent speaker at leading business institutions including Stanford, Harvard, Wharton, and Columbia. Ms. Bahl is on the Board of Directors of Evidence Action, and will be joining TechnoServe's Global Advisory Council in 2015. She has served as Market-Shaping Co-Chair for the UN Commission on Life Saving

Commodities Technical Working Group, and as a Faculty Member at Harvard's Science of Malaria Eradication course. Prior to R4D, Ms. Bahl served as an Executive Vice President at the Clinton Foundation Health Access Initiative (CHAI), where she worked from 2005-2010. While there, she helped build and lead the \$400 million, 33-country UNITAID program, which reduced prices on HIV and AIDS drugs by 80 percent for over two million global patients. She also served as Africa Regional Director, launching and managing CHAI's presence in 19 sub-Saharan African countries. Prior to CHAI, Ms. Bahl led market-based approaches to international development across a variety of sectors, including technology, infrastructure, and financial services. She has worked at Voxiva, Bechtel Enterprises, and the Consultative Group to Assist the Poor (CGAP), a leading microfinance organization.

Elizabeth Bontrager, USAID, USA

Elizabeth Bontrager is a Nutrition Advisor in the Nutrition Division of the Office of Health, Infectious Disease, and Nutrition at USAID. In this role, she provides technical assistance to USAID country-level programs and supports activities implemented by Washington-funded projects, with a focus on monitoring and evaluation of multi-sectoral nutrition activities. Ms. Bontrager comes to USAID from the Feinstein International Center at Tufts University, where she worked in a research and evaluation capacity with Save the Children and Concern Worldwide in Ethiopia and Chad.

Anabelle Bonvecchio Arenas, National Institute of Public Health, Mexico

Dr. Anabelle Bonvecchio Arenas is a nutritionist specializing in social marketing and public health. She holds a Master's of Public Health from Emory University and a Doctorate in Public Health with a focus in Health Systems from the Public Health School/National Institute of Public Health in Mexico. Dr. Arenas is a Researcher Level D at the National Institute of Public Health in Mexico, where she has been working for the past thirteen years, as well as a member of the National Research System (SNI). She has over fifteen years of experience in the design, management, implementation, and evaluation of behavior change interventions for the prevention of childhood obesity, malnutrition and micronutrient deficiencies, promotion of breastfeeding and complementary feeding, and healthy lifestyles. Dr. Arenas has served as a consultant for IADB, GAIN, Micronutrient Initiative, World Bank, World Food Programme, CARE, and UNICEF, with assignments in Bangladesh, Guatemala, Panamá, Ecuador, and Venezuela.

Judy Canahuati, Office of Food for Peace (FFP), USAID, USA

Judy Canahuati has worked for more than 30 years in supporting maternal and child nutrition and health programs in over twenty countries in Latin America, Asia, and Africa, working with NGOs, governments, and international organizations. Ms. Canahuati began her professional career as Outreach Coordinator for the first mobile-unit family planning project on the continental US, and went on to support the national breastfeeding program in Honduras. Ms. Canahuati worked as the Senior Technical Advisor to the Wellstart Expanded Promotion of Breastfeeding Program. For several years, she directed the largest bilingual school in Central America in San Pedro Sula, Honduras. Returning to the US to live in 2001, Ms. Canahuati worked with the CARE Health, Emergency, Food, and HIV units. She has been working with USAID's Office of Food for Peace since 2004, focusing on maternal and child nutrition, health, and the nutritional quality of the food that USAID provides in its food assistance programs.

Deepika Nayar Chaudhery, Micronutrient Initiative, India

Dr. Deepika Nayar Chaudhery is the Deputy Regional Director, Asia at the Micronutrient Initiative. In consultation with country governments, she guides the development, delivery, and quality assurance of nutrition programs in six Asian countries, including Afghanistan, Bangladesh, Indonesia, India, Nepal, and Pakistan. Dr. Chaudhery has also worked as a Technical Specialist at CARE India and as a Nutrition Project Officer with UNICEF/India. She holds a Doctorate in Nutrition from the All India Institute of Medical Sciences, New Delhi, and has more than 20 years of experience in managing large scale nutrition and health programs in Asia. Dr. Chaudhery has authored several publications on the Integrated Child Development Services in India and on Iodine Deficiency Disorders.

Gwyneth Cotes, SPRING, USA

Gwyneth Cotes has 12 years of experience designing and leading health and development programs in Africa. She recently joined the SPRING project as the Director of Global Initiatives. Ms. Cotes' experience in the nutrition sector ranges from community-based efforts to leading a national scale-up of nutrition services to advocacy through the global SUN movement. Ms. Cotes has spent the last three years as Programme Director (and the last year as Country Director) for Concern Worldwide in Malawi, where she managed a multi-sectoral portfolio of projects (including agriculture, health, and education). As Country Director, Ms. Cotes held the most senior leadership position in-country and was responsible for all management, operations, and personnel (both local and expatriate), and oversaw a four million dollar portfolio. Prior to her leadership role in Malawi, Ms. Cotes served as a Health and Nutrition Advisor with Concern in Ireland and in Malawi. She has also worked in Sudan, Ghana, and Eritrea in the areas of maternal and child health and nutrition.

Alexis D'Agostino, SPRING, USA

Alexis D'Agostino is a Monitoring and Evaluation Specialist for SPRING with a background in quantitative program analysis, research and data collection, and project management. Since 2012, Ms. D'Agostino has supported SPRING's work in micronutrient powder (MNP) programming in Uganda. Her primary areas of expertise include primary and secondary data analysis, survey design and implementation, and training. Ms. D'Agostino also has experience with qualitative data collection analysis, including use of NVivo software. She has a Master's of Public Policy with a concentration in Global Policy from Duke University's Sanford School of Public Policy, and received her Bachelor of Arts in International Relations and Foreign Languages from Claremont McKenna College.

Omar Dary, USAID, USA

Dr. Omar Dary is a Senior Nutrition Advisor of the Bureau for Global Health at USAID. He has provided technical assistance to more than 40 countries in the areas of micronutrient interventions and nutrition surveillance for the last 25 years. Dr. Dary has been an advisor to WHO, UNICEF, FAO, WFP, IAEA, PAHO, the CDC, ILSI, MI, GAIN, and SUSTAIN. From 1990 to 2002, Dr. Dary worked for the Institute of Nutrition of Central America and Panama (INCAP), where he led the Micronutrient Group and the Nutritional Biochemistry and Food Composition Laboratories. From 2002 to 2013, he worked for several organizations that implemented USAID development projects in nutrition. Dr. Dary has consulted for the Bill and Melinda Gates Foundation on new potentials for food fortification, PAHO/WHO for evaluating salt

iodization programs in Ecuador and Mexico, and INCAP and the Council of the Ministers of Health of Central America and the Dominican Republic (COMISCA) for designing micronutrient powders as part of overall nutrition strategies. Dr. Dary is a member of the Steering Committees of the Iodine Global Network (IGN), the International Zinc Nutrition Consultative Group (IZiNCG), and the PAHO Expert Group to Reduce Salt Intake. Previously, he was a member of the Steering Committees of the Micronutrient Forum and the International Vitamin A Consultative Group (IVACG).

Dr. Dary holds a Bachelor's of Science in Biology, and a Doctorate in Biochemistry from the University of California, Riverside. His interests include the appropriate combination of nutritional interventions to complement the value of common diets focused on reducing deficiencies while preventing unnecessary excesses, and assessing and monitoring nutrient intakes and biomarkers associated with nutritional status.

Diane DeBernardo, USAID, USA

Diane DeBernardo has a Master's in Public Health with a concentration in Public Health Nutrition from Johns Hopkins University. Previously, Ms. Bernardo worked for the Food and Nutrition Technical Assistance Project, the International Medical Corps, and the Office of Foreign Disaster Assistance, as well as a number of emergency NGOs. Her background includes emergency, transitional, and development programming in nutrition and many other sectors.

Ruben Grajeda Toledo, PAHO/WHO, USA

Dr. Ruben Grajeda Toledo is a medical doctor who graduated from Universidad de San Carlos de Guatemala and holds a master's degree in nutritional science from the University of Connecticut. Dr. Grajeda is a PAHO Regional Technical Advisor in Nutrition. In this role, he has provided technical cooperation to PAHO's member states to review and update policies and programs to prevent and control micronutrient deficiencies. Before joining PAHO, Ruben worked at the Institute of Nutrition of Central America and Panama (INCAP) as a director of different research projects related to maternal and child health and nutrition. As a result, Dr. Grajeda is the co-author of several papers.

Elaine Gray, USAID, USA

Elaine Gray is a Nutrition Advisor in the Bureau for Global Health at USAID. In this role, she provides technical assistance to the bureau's centrally managed nutrition projects and supports nutrition activities in the Asia region. Previously, Ms. Gray worked for the Clinton Health Access Initiative, Harvard University Childhood Obesity Intervention Cost-Effectiveness Study, and Tufts University Food Aid Quality Review and Nutrition Collaborative Research Support Program. Ms. Gray has worked in Haiti, India, and Togo. She completed her Bachelor's of Art in Anthropology and French at the University of British Columbia, and her Master's of Science in Food Policy and Applied Nutrition and Master's of Public Health in Global Health at Tufts University.

Marcia Griffiths, The Manoff Group, USA

Marcia Griffiths has 30 years of experience in international health and nutrition in all parts of the world. She has served as President of The Manoff Group, a leader in behavior change programming for health, for more than 20 years. Ms. Griffiths is known for her field work, technical expertise, and innovative programming in applied nutrition, particularly her program work focused on promoting healthy child

growth. She has served as a senior advisor in nutrition and communications/social marketing for numerous USAID, World Bank, and government programs and projects, advising on qualitative research, strategy development, program design, and implementation, particularly focused on communication elements. Her experience incorporating behavioral issues in program design grew into Behavior-Centered Programming, a standardized approach to the design process. She also pioneered Trials of Improved Practices (TIPs), an action research methodology for "test marketing" health practices for feasibility. Ms. Griffiths began her career directing a community nutrition project on the east coast of Nicaragua. Then, in her first assignment for Manoff International, she served as the director of technical assistance for the Government of Indonesia's ground-breaking Nutrition Communication and Behavior Change Project. She later directed USAID's Weaning Project, where she developed a comprehensive program package for improving complementary feeding practices based on work in six countries. In addition to IYCN, Ms. Griffiths' nutrition communication work has included significant work in women's nutrition, anemia control, and a variety of micronutrient programs. Ms. Griffiths holds degrees in Anthropology and Nutritional Science.

Christophe Guyondet, GAIN Premix Facility, Switzerland

Christophe Guyondet has over nine years of international experience in procurement, supply chain, and business operations. Over the past five years, he specialized in sourcing of foods additives and ingredients, thereby developing and growing a network of reliable global suppliers. In addition to his business acumen, Mr. Guyondet has worked in the international nutrition and public health fields. Publishing a number of peer-reviewed articles documenting best practices in international sourcing of food ingredients, Mr. Guyondet is a trusted member of the global nutrition cluster. He has developed innovative supply chain systems in Kenya, Tanzania, Ghana, Kyrgyzstan, Pakistan, and Mali. He is currently based in Geneva, Switzerland.

Mohammad Raisul Haque, BRAC, Bangladesh

Dr. Mohammad Raisul Haque has three decades of public health service delivery and program management experience, as well as 18 years of experience working with BRAC including on USAID, DFID, AUSAID, and B&MGF-funded efforts. Currently, he is serving as Program Head of BRAC's Nutrition Programs, leading the implementation team with operational and technical guidance in 243 sub-districts covering a population of 62 million in Bangladesh. Dr. Haque brings an exceptional set of skills gained through experience in the Alive & Thrive project for improving infant and young child feeding practices in the community, as well as IYCF and maternal nutrition in USAID since 2013. He is also leading other BRAC nutrition projects to understand the context and environment for reducing malnutrition. Dr. Haque is engaged with the multi-sectoral approach of working together on diversified food production, consumption, behavioral change, and the role of household sanitation and personal hygiene on nutritional impact. Dr. Haque is also responsible for improving micronutrient deficiency in children under five through the MIYCN project (home based food fortification) funded by GAIN in 170 sub-districts and a universal salt iodized project in 14 sub-districts. He also has teaching experience in the James P. Grant School of Public Health (JPGSPH) of BRAC University, particularly in the Master's of Public Health program. As a researcher, he focuses on issues related to nutrition, growth, and development, and has been published in several peer-reviewed journals. Dr. Haque holds a Bachelor's Degree in Medicine and Surgery

and a Diploma in Tropical Medicine, a Master's Degree in Population and Reproductive Health Research, and a Doctorate in Demography.

Carrie Hubbell Melgarejo, SPRING, USA

Carrie Hubbell Melgarejo serves on SPRING as a Nutrition Advisor, working on the Anemia and Agriculture/Nutrition teams. She has over 11 years of international development experience, primarily developing, managing, or supporting food and/or nutrition security programs. Most recently, Ms. Melgarejo helped World Vision pursue funding for such activities (e.g., integrating basic nutrition such as fortification; supplementation; and maternal, infant, and young child feeding; with agriculture, health, and WASH). A decade before, also with World Vision, she started up an integrated program including MNPs, supplements, and social behavior change in Mongolia. She has also done work for The Manoff Group (e.g., health workers' nutrition curriculum), the Feinstein International Famine Center (a review of food aid best practices), the Micronutrient Initiative and Tufts University (support in Bangladesh to the government's nutrition program), A.B. PRISMA (support in Peru to a national NGO's research department), and Pathfinder International (family planning program support and documentation). Ms. Melgarejo has planned, managed, supported, and documented programs, and organized and conducted workshops and trainings on: stunting causal pathways, micronutrient supplementation, industrial food fortification, biofortification, severe anemia in pregnancy, food aid programming, nutritional assessment, community-based growth promotion, and behavior change communication. She earned her Master's of Science in Food Policy and Applied Nutrition from Tufts University.

Cholpon Imanalieva, UNICEF, Kyrgyzstan

Cholpon Imanalieva has led UNICEF's National MNP program in Kyrgyzstan since 2007, contributing to the design planning, piloting, and scaling up of program and monitoring of interventions. Ms. Imanalieva presented the results of the program and features during the M&E sessions at workshops for countries of sub-Saharan Africa (2012), CEECIS region (2013), and Vietnam/Laos/Cambodia (2014). She is also one of the facilitators of the HF-TAG global internet based platform.

Laura Irizarry, Independent Consultant, Peru

Laura Irizarry is an independent consultant. Most recently, she has supported the development and implementation of policy and program actions related to home fortification through UNICEF, GAIN, and the Inter-American Development Bank (IDB). Ms. Irizarry also serves on the National Expert Committee on Nutrition as appointed by the Government of Peru. From 2010-2013, she served as a workshop coordinator for UNICEF in four of the five regional home fortification workshops designing MNP scale-up plans in 66 countries. She also coordinated the UNICEF-CDC 2011 Global Assessment of Home Fortification Interventions. Ms. Irizarry holds a Bachelor's of Arts degree in Early Child Development from Tufts University and a Master's of Science degree in Food Policy and Applied Nutrition from the Friedman School of Nutrition Science and Policy.

Maria Elena Jefferts, US Centers for Disease Control and Prevention (CDC), USA

Dr. Maria Elena Jefferts is a behavioral scientist at the CDC with expertise in surveillance, monitoring, and evaluation of micronutrient programs. Dr. Jefferts advises on the design and implementation of MNP programs, and has led multiple initiatives to develop country capacity through CDC collaborations with

UNICEF and the Home Fortification Technical Advisory Group, including developing home fortification regional workshops, an MNP Toolkit, a webinar series, and a monitoring manual. She was an author of the first UNICEF/CDC global assessment of home fortification products, and provides technical assistance in the collection of annual MNP program data through UNICEF's Nutridash. She has authored multiple peer review articles and reports on MNP programs, and is a co-author on a Cochrane review of MNP interventions in children 6-23 months and 2-12 years.

Rolf Klemm, Helen Keller International (HKI), USA

Dr. Rolf Klemm is the Vice President for Nutrition at HKI and a Senior Associate in the Program for Human Nutrition at the Johns Hopkins Bloomberg School of Public Health. Dr. Klemm has more than 30 years of professional experience in international public health nutrition, including roles as a Peace Corps Volunteer, Country Director for Helen Keller International (Philippines), Technical Director of USAID's flagship A2Z micronutrient program, and Johns Hopkins University faculty member and principle/co-investigator for micronutrient intervention trials in Asia and Africa. Rolf holds a Master's Degree as well as a Doctoral Degree in Public Health from the Johns Hopkins Bloomberg School of Public Health.

Hou Kroeun, Helen Keller International (HKI), Cambodia

Hou Kroeun currently works with HKI as Deputy Country Director. Mr. Kroeun holds a Master's of Public Health and has 15 years of experience in designing and managing complex household food security, nutrition, and health related programs in Cambodia. Prior to joining HKI, Mr. Kroeun was an agriculture specialist involved in the development, implementation, and monitoring of sustainable integrated farming system projects with New Zealand Volunteer Service Abroad (VSA), Quaker Service Australia (QSA), Mennonite Central Committee (MCC), Japanese International Volunteer Center (JVC), United Nations High Commissioner for Refugees (UNHCR), and the United Nations Transitional Authority in Cambodia (UNTACT). Mr. Kroeun is also a key member of various national working groups on food security, nutrition, and health. He works very closely with Ministry of Health, Ministry of Education, Ministry of Agriculture, Forestry, and Fisheries, Ministry of Planning, and Council for Agriculture and Rural Development (CARD).

Zeina Maalouf-Manasseh, FANTA/FHI 360, USA

Dr. Zeina Maalouf-Manasseh has several years of experience working in maternal and child nutrition research, both nationally and globally. She is currently a Research Associate for Nutrition with the USAID-funded FANTA project, where she manages a portfolio of nutrition and food security-related research. Before joining FANTA, Dr. Maalouf Manasseh was a postdoctoral scholar in the Program in International and Community Nutrition at the University of California, Davis. She has previously worked with World Bank-funded nutrition programs, as well as in food aid consulting. She holds a Doctorate in International and Community Nutrition from the University of California, Davis, and a Master's of Science in Food Policy and Applied Nutrition from Tufts University.

Raphael Makonnen, USAID, USA

Raphael Makonnen is a Nutrition Advisor in the Nutrition Division of the Bureau for Global Health at USAID. He provides broad expertise in public health nutrition toward achieving the overall operational objectives of USAID, specifically in: (a) nutrition assessment, designing, programming, monitoring, and

evaluation, focusing on nutrition-specific interventions, mainly maternal nutrition and care, breastfeeding, infant and young child feeding, and analysis and interpretation of nutritional indicators; and (b) food security, food and nutrient intake assessment, cross-support with agriculture and livelihoods, food safety, and WASH. Prior to joining USAID, Mr. Makonnen worked with Save the Children and Concern Worldwide in monitoring and evaluation, food security, nutrition, child survival, and emergency response. Mr. Makonnen has a Bachelor's of Science from Georgetown University School of Foreign Service and a Master's of Public Health from Columbia University Mailman School of Public Health.

Shelley Marcus, Tufts University, USA

Shelley Marcus is the Project Manager for the Food Aid Quality Review, part of a series USAID and USDA activities aimed at enhancing product choice under Title II of Public Law 480 (PL480). In her current role, she is improving quality control and assurance (of both processes and products), and updating technical guidance and the evidence base for programming approaches. Ms. Marcus' background is in food aid, food and nutrition security, HIV/AIDS, maternal and child health nutrition, and nutrition curriculum development.

Traci Mouw, USDA, USA

Traci Mouw is currently a Program Analyst with the Child Nutrition Policy and Program Development Division of the Food and Nutrition Service at the US Department of Agriculture (USDA). Since 2011, Ms. Mouw has worked on the Child and Adult Care Food Program and the Summer Food Service Program. Ms. Mouw was instrumental in the development of GIS maps that allow state agencies and communities to identify underserved areas and potential partners to fill those service gaps. In addition, her work has focused on incorporating local food and agricultural education into these programs as well as disasters, paperwork reduction, and rural issues. Ms. Mouw is member of the USDA Secretary's initiative *Know Your Farmer, Know Your Food* (KYF2), a cross-agency taskforce focused on local and regional food systems, and was recently tasked with updating the KYF2 Compass mapping tool that catalogs federal investments in local and regional food systems. Previously, Ms. Mouw held positions with the Imperial College of London School of Public Health, and the Nutritional Epidemiology Branch within in the National Institutes of Health, investigating the association of dietary intake and chronic disease in the large cohort studies in US and Europe. Ms. Mouw holds a Master's of Public Health from the University of Minnesota.

Generose Mulokozi, Government of Tanzania

Dr. Generose Mulokozi has 24 years of research and project experience in food science and nutrition with extensive fieldwork experience in rural settings, mainly in Tanzania, focusing on community mobilization. Her main area of interest in research and intervention is micronutrients. Dr. Mulokozi has collaborated with various governments' nutrition stakeholders, international institutions, and organizations through working groups and initiatives to combat malnutrition, such as the National Food Fortification Alliance (NFFA), the National Nutrition Technical Working Group (NNTWG), the Task Force on Infant and Young Child Feeding, and the Task Force on Vitamin A Supplementation. In addition, she was a prominent leader of Vitamin A Partnership for Africa (VITAA) in Tanzania, an initiative that promotes the production and consumption of orange-fleshed sweet potato (rich in beta-carotene) to alleviate Vitamin A deficiency in sub-Saharan Africa. From January 2012 to May 2015, she served as a Public Health Nutritionist for an Abt Associates-managed USAID Feed the Future project in Tanzania known as Tuboreshe Chakula. There, she

led the nutrition and demand creation component, supervised fortification of maize flour and edible oil for medium and small scale processors, as well as SBCC and social marketing works. Dr. Mulokozi has pioneered the introduction of MNPs in eight districts of Tanzania mainland and Zanzibar through a commercial channel. MNPs are now being distributed in more than 50 districts of the Tanzania mainland and Zanzibar.

Sorrel Namaste, SPRING, USA

Dr. Sorrel Namaste is a nutrition epidemiologist with 10 years of experience in global health. Her areas of expertise include anemia, micronutrient biomarker assessment, and the safe and effective implementation of micronutrient interventions. She has a particular interest in facilitating collaborations between the scientific, policy, and implementation communities for population-based nutrition programs. Dr. Namaste joins SPRING from the National Institutes of Health (NIH), where she was responsible for project development, monitoring, evaluation, and dissemination of large-scale global nutrition programs. Most recently, she has been the co-principal investigator on the NIH, CDC, and GAIN-led Biomarkers Reflecting Inflammation and Nutrition Determinants of Anemia (BRINDA) Project. She completed her Doctorate in Public Health at George Washington University and holds a Master's of Health Sciences from the Johns Hopkins Bloomberg School of Public Health in Global Epidemiology.

Lynnette Neufeld, Global Alliance for Improved Nutrition (GAIN), Switzerland

Dr. Lynnette M. Neufeld is Director of Monitoring, Learning, and Research at GAIN where she leads a team dedicated to the strategic collection, translation, and use of evidence to guide the design and improvement of nutrition programs globally. Dr. Neufeld is Chair of the Steering Committee of the Micronutrient Forum, and is a council member of the International Union of Nutritional Sciences (IUNS). Dr. Neufeld has extensive international experience, including 10 years at the National Institute of Public Health (INSP) in Mexico where her research focused on improving the effectiveness of interventions to promote the health, growth, and development of children from disadvantaged populations. She continues an active research agenda, including lead researcher on the nutrition impact evaluation of the Oportunidades (Mexico). She also continues to be an active in research, teaching, and student advising through on-going collaborations with Emory and Cornell Universities and INSP in Mexico, and has over 80 publications in peer reviewed journals and book chapters. Dr. Neufeld has Doctoral and Master's Degrees in International Nutrition from Cornell University and a Bachelor's of Applied Human Nutrition from Guelph University in Canada.

Minarto Noto Sudardjo, Millennium Challenge Account, Indonesia

Dr. Minarto Noto Sudardjo is the director of the Community Based Health and Nutrition Project, MCA-Indonesia (2013-present), and has been involved in the development of the Nutrition Program in Indonesia. Previously, he was the Director of Nutrition for the Department of Health. He has held a number of positions as senior public health nutritionist for over 25 years. He has been actively involved in the formulation of policies and regulations related to nutrition, including the development of MNPs in Indonesia. Dr. Noto Sudardjo is a nutritionist by training, having graduated from the Jakarta School of Nutrition in 1980. He holds a Master's of Professional Studies on Food and Nutrition Planning from the University of the Philippines, and he completed his Public Health Doctorate from the University of Indonesia in 2006. He has also participated in a number of courses, such as the International Course in

Food Science and Nutrition, the Post Graduate Course in Nutritional Epidemiology, and the Course on Food and Nutrition Program and Policies. Dr. Noto Sudardjo is the president of the Indonesia Nutritionist Association, the biggest nutrition professional organization in Indonesia. It has approximately 34,000 members consisting of nutritionists and dieticians with varied levels of educational backgrounds. He has also acted as co-advisor of doctoral students at the University of Indonesia and Bogor Agriculture Institute. At the same time, he has given lectures to post graduate students at the University of Gajahmada, Yogyakarta.

Christina Nyhus Dhillon, SPRING, USA

Dr. Christina Nyhus Dhillon is currently a consultant for the SPRING project's Anemia Team. Christina is an international public health nutritionist and researcher who has served on various assignments in Nicaragua, Peru, Tanzania, and India, ranging from community-based nutrition education in Nicaragua as a Peace Corps Volunteer to doctoral research on iron bioavailability in southern India. Dr. Nyhus Dhillon has most recently worked with Helen Keller International, where she served as the Africa Regional Vitamin A Supplementation Monitoring and Evaluation Advisor, and later as the Deputy Country Director-Programs for the Tanzania office. In this role, she provided technical oversight for a range of programs, including large scale food fortification, homestead food production, infant and young child feeding research, and advocacy for investment in orange fleshed sweet potatoes. Prior to her work with HKI, she conducted research with Harvard School of Public Health, managing a clinical trial in Tanzania that examined the impact of a multiple micronutrient supplement on pregnancy outcomes. Dr. Nyhus Dhillon has a Master's of Public Health from Emory University and a Doctorate from Cornell University's Division of Nutritional Sciences.

Edna Possolo, Government of Mozambique

Edna Possolo began her undergraduate studies in the Medicine School of Eduardo Mondlane University in Mozambique, then moved to Brazil to get a Bachelor's Degree with honors in Nutrition from the Federal University of Pernambuco. While in Brazil, she completed an internship in bench research on linking undernutrition with behavioral attention and undertook implementation research on the effectiveness of an IYCF education strategy. In addition, Ms. Possolo worked as dietitian assistant in a private hospital and in one municipality office supporting the management of public health nutrition programs for a year. After her bachelor's program, she returned to her home country, Mozambique, and worked for six years as the head of the nutrition unit at the Ministry of Health. Activities included: nutritional surveillance, nutrition education, stunting reduction, CMAM, micronutrient deficiencies, nutrition in the context of HIV and tuberculosis, and nutrition and non-communicable diseases. During this period, Ms. Possolo represented the health sector in several multi-sectoral forums, such as the National Secretariat of Food Security and Nutrition, the National School Feeding Program, the Early Child and Development Strategy, and the Regional Agriculture Initiative for Africa, among other specific agendas from other sectors. From 2011 to 2013, she was appointed as the technical focal point for the SUN Movement, and as the focal point for the National Codex Alimentarius Committee. Currently, Ms. Possolo is part of the MNP working group in Mozambique, while finishing a Master's Degree in International Nutrition at Cornell University.

Timothy Quick, USAID, USA

Dr. Tim Quick has been the Senior Nutrition Advisor in the Office of HIV/AIDS at USAID since 2004, working on integration of nutrition assessment, counseling, and support (NACS) within PEPFAR care and treatment programs. Dr. Quick started at USAID in 1994 in the Office of Health and Nutrition, working on micronutrient and other MCH nutrition programs, as well as the nexus of agriculture, food security, and nutrition. Dr. Quick attended Ohio University, was a Peace Corps Volunteer in Upper Volta (Burkina Faso), and received his Master's of Science from The Ohio State University and Doctorate from the University of Massachusetts in Animal Nutrition. He was an NIH Postdoctoral Research Fellow for three years at the Vanderbilt University School of Medicine and for four years at Boston University School of Medicine, conducting research on vitamin A metabolism prior to coming to USAID, initially as an AAAS Fellow.

Rahul Rawat, International Food Policy Research Institute (IFPRI), Senegal

Dr. Rahul Rawat is Senior Research Fellow at IFPRI, based in Dakar, Senegal. At IFPRI, Dr. Rawat coordinates a portfolio of applied research focused on interventions delivered through a variety of delivery platforms to address maternal and child undernutrition. This involves conducting impact evaluations and process evaluations focused on understanding the quality and effectiveness of delivery for nutrition-sensitive and nutrition-specific interventions. The types of interventions in this portfolio include social and behavior change communication around infant and young child feeding through interpersonal counseling and mass media, interventions that strengthen the linkages between agriculture and nutrition, the use of market-based platforms for the sale of micronutrient powders by community-based frontline health workers, social protection programs designed to improve child nutrition, and interventions that strengthen the linkages between preventive nutrition services and treatment services, such as community based management of acute malnutrition (CMAM) programs. Dr. Rawat has a Doctorate in International Nutrition from Cornell University, and a Master's degree in International Health from the Johns Hopkins School of Public Health.

Ietje Reerink, PSI, Madagascar

Ietje Reerink is currently working as a consultant for PSI's child survival department, based in Madagascar. She is also the coordinator for the Home Fortification Technical Advisory Group, and is assisting UNICEF and PSI with the preparation of a summary document on multi-country experiences with social marketing of MNPs. Previously, Ms. Reerink worked as a Senior TA for PSI in Madagascar for eight years, where she coordinated the first pilot MNP social marketing project in 2012 (now in semi-scale up), and prior to that, in Myanmar for three years. She has extensive programmatic and managerial experience in FP, neonatal health (chlorhexidine), HIV/STI prevention, social franchising, BCC, and research/MIS. Other organizations she has worked for include the Royal Tropical Institute (KIT)/Amsterdam and Family Care International/NYC. Ms. Reerink has professional experience in more than 20 countries.

Claudia Roca, USAID DELIVER, Guatemala

Claudia Roca is the Resident Advisor with the USAID DELIVER project at John Snow, Inc. (JSI) in Guatemala. She has seven years' experience working with the Ministry of Health in Guatemala and three years working with micronutrients in the country. With DELIVER, Claudia leads the coordination of the project's technical and administrative activities, and provides technical assistance to the key public health supply

chain stakeholders. She also identifies advocacy interventions to implement activities related to supply chain in collaboration with USAID/Guatemala, SCMS, IDB and other partners, and obtains support to improve the availability of essential drugs, medicines, and supplies, working with the government of Guatemala, NGO representatives, and community leaders.

Irwin Rosenberg, M.D., Tufts University, USA

Prof. Rosenberg is the Jean Mayer University Professor at Tufts and the Friedman School. Prof. Rosenberg served as Dean of the Friedman School of Nutrition Science and Policy at Tufts from 1995-2004. He also served for 15 years as the Director of the Jean Mayer USDA HNRCA. Prof. Rosenberg has been involved in nutrition and food policy issues ranging from dietary guidelines and reference intakes to international nutrition recommendations for the elderly. Prof. Rosenberg is an elected member of IOM/NAM and former chair of the Food and Nutrition Board.

Danya Sarkar, SPRING, USA

Danya Sarkar is an Anemia Project Officer for SPRING and has a diverse background in global health, having worked in Bangladesh, Kenya, Cameroon, and India in reproductive health, maternal and child health and nutrition, and disease control and prevention for over eight years. Her areas of expertise include: management, qualitative research and analysis, program design, and training and curricula development. Ms. Sarkar supports SPRING's work in MNP programming in Uganda. She has an MHS in Human Nutrition from Johns Hopkins Bloomberg School of Public Health, and a BA in Development Studies from UC Berkeley which included a year of study at the University of Ghana.

Michelle Schaan, USAID, USA

Michelle Marian Schaan joined USAID in March 2015 as a Foreign Service Health Officer. Ms. Schaan is a health promotion professional with 15 years of diverse experience in areas including research design and data analysis, sexual and reproductive health, HIV prevention program design and management, and organizational capacity assessment and development.

Claudia Schauer, The Hospital for Sick Children, Canada

Claudia Schauer is currently the coordinator for the Home Fortification Technical Advisory Group (HF-TAG) Secretariat. She was part of the original research team that developed micronutrient powders at SickKids Sprinkles Global Health Initiative, Canada. Ms. Schauer has also held positions with SickKids Foundation where she focused on international capacity building and health systems strengthening initiatives. Ms. Schauer worked with Save the Children Canada for a number of years as a senior advisor, where she gained valuable programmatic experience in child health and nutrition in countries across Africa, Asia, South America, and the Caribbean.

Ruth Situma, UNICEF, USA

Ruth Situma is a Nutrition Specialist currently working on micronutrient programs at UNICEF HQ, New York. Ms. Situma has over 15 years of work experience in designing, implementing, and monitoring of food and nutrition security programs in both development and emergency contexts. Her experience specifically focuses on food security analysis, nutrition in emergencies, micronutrient programs, nutrition

information systems, nutrition policies, costing, and advocacy. Ms. Situma has a Master's Degree in Public Health Nutrition from London School of Hygiene and Tropical Medicine.

Kellie Stewart, USAID, USA

Kellie Stewart currently serves as the Nutrition Team Leader in the Global Health Bureau's Nutrition Division. Prior to joining the Nutrition Division, she served as the Health Office Director at USAID/Honduras for six years. In this role, Ms. Stewart spearheaded the Mission's health strategy and played an active leadership role in the Mission's inter-sectoral efforts, especially in decentralization, food security, and citizen security. Prior to becoming the Health Office Director in 2008, Ms. Stewart served as the Honduras Mission's HIV Advisor. She began her career at USAID in the Office of Population and Reproductive Health in 2000, working on efforts to improve access to and quality of health services. Prior to her work at USAID, Ms. Stewart served as a Peace Corps volunteer in Guatemala and Honduras. She holds a Master's of Health Science degree from the Johns Hopkins School of Public Health and a Bachelor's of Arts in Sociology from UC Santa Cruz.

Nigel Sunley, Sunley Consulting, South Africa

Nigel Sunley is a highly experienced food science and technology consultant with 32 years of food industry experience, and has been self-employed since 2007. He holds a Bachelor's of Science with honors in Chemistry (University of Leeds), and a Master's Degree in Food Science (University of Natal). Mr. Sunley has specific experience in the interface between food science and nutrition, and the practical development and manufacture of nutritionally enhanced food products. He has significant consulting experience with GAIN since 2008 and has conducted projects for them in eight countries, including feasibility studies into MNP production in Kenya, Nigeria, Bangladesh, Afghanistan, and El Salvador.

Gustavo Iván Tapia Terán, Independent Consultant, Bolivia

Dr. Gustavo Iván Tapia Terán is a Bolivian-born and based medical doctor, public health specialist, and health and nutrition consultant. Over the past 11 years, Dr. Tapia has worked for NGOs and international cooperation agencies, such as Plan International and UNICEF. He has provided technical assistance to governmental health institutions such as the Ministry of Health, nine Departmental Health Services, six Departmental Autonomous Governments, and various Municipal Autonomous Governments in the nine departments of Bolivia. Over the past decade, he has also provided technical assistance to maternal and newborn, infant, and children health programs; the Continuous Quality Healthcare Improvement Cycles Program at national, departmental and local levels; the Departmental Board of Safe Motherhood and Birth; and the maternal and newborn morbidity and mortality surveillance system in health networks. In addition, he has helped to monitor process and outcome indicators; contributed to the elaboration of reports and analysis of indicators; participated in national, departmental, and local committees for health and nutrition information analysis; contributed to the certification of hospitals in the Mother and Baby Friendly Hospital Initiative; supported regional STD-HIV-AIDS programs to deconcentrate rapid tests at the local level to prevent mother-to-child HIV and congenital syphilis transmission; and taken local actions with indigenous people in the tropical region of Cochabamba.

Melanie Thurber, Office of Food for Peace (FFP), USAID, USA

Melanie Thurber is a Nutrition Advisor for USAID's Office of Food for Peace. In this capacity, she provides nutrition technical assistance to Food for Peace Washington and field staff, as well as implementing partners for development and emergency programs. Ms. Thurber also acts as the FFP liaison to other USAID nutrition activities in the Bureau of Food Security, Global Health, and OFDA. Prior to joining USAID Washington, Ms. Thurber was the Food for Peace officer at the US Embassy in Nouakchott and oversaw the broad US Government humanitarian assistance portfolio for Mauritania. In Ms. Thurber's 12-year career, she has worked with Counterpart International in Mauritania, The Grandmother Project in Senegal, Johns Hopkins School of Public Health in Baltimore, and as a rural health educator in Southern Arizona. Ms. Thurber completed her Peace Corps service as a Community Health and Nutrition volunteer in Southern Mauritania. She holds a Bachelor's Degree in International Development from the University of Arizona and a Master's of Public Health with concentrations in Nutrition and Social and Behavior Change from Johns Hopkins Bloomberg School of Public Health.

Narantsetseg Tsevegsuren, World Vision International, Mongolia

Dr. Narantsetseg Tsevegsuren graduated from the Pediatric Faculty of Medical Science at the University of Mongolia in 1986, specializing in pediatrics. Since then, she has gained experience with management and leadership of child health, nutrition, and community development programs in Mongolia for over 25 years. She has six years of experience as a pediatrician at the District Public Health Division; three years of experience with child growth development and research work at Nutrition Research Center; experience at the Ministry of Health; five years of experience as the Project Manager of the Early Childhood Care and Development Project, focusing on child health, care/nutrition, and developmental issues; five years of experience as a Team Leader of the urban Area Development Program (ADP), managing various aspects of program design, implementation, monitoring/evaluation, financial, and human resources management; three years of experience as Zonal Director, overseeing the management and implementation of nine urban and rural ADPs in the northern region of Mongolia; and seven years of experience as the Health National Coordinator, providing technical support and strategic direction to the organization's health program activities throughout the country. Dr. Tsevegsuren has applied this combination of practical experience to a variety of consultancies for government and NGOs in Mongolia.

Alison Tumilowicz, Global Alliance for Improved Nutrition (GAIN), Switzerland

Alison Tumilowicz has more than 10 years of experience in the prevention and treatment of undernutrition, management of country-level operations, development of global technical guidance, and implementation research. As Senior Technical Specialist in Monitoring, Learning, and Research, Dr. Tumilowicz is strengthening GAIN's generation and utilization of evidence to improve program design and delivery. Prior to joining GAIN, she worked as a technical advisor with the Food and Nutrition Technical Assistance Project / FHI 360 in Guatemala, Mozambique, and Washington, DC. She holds a Doctorate in international nutrition from Cornell University and a Master's of Public Health from the University of California at Berkeley.

Carolyn Wetzel-Chen, Millennium Challenge Corporation, USA

Carolyn Wetzel-Chen brings 18 years of international, public health-focused community development expertise in over 22 countries. She is a Senior Program Officer in the Human and Community Development practice group of the Millennium Challenge Corporation (MCC). In this role, Ms. Wetzel-Chen supports program design and implementation of health, nutrition, WASH, and social and behavior change programming in various countries. Prior to joining MCC, she spent 14 years providing leadership to Food for the Hungry's work in Africa, Asia, and Latin America, including developing public and private partnerships and providing technical support in the areas of social and behavior change, maternal and child health and nutrition, WASH, infectious disease prevention, and monitoring and evaluation. She has lived in Peru, Belize, and Mozambique, developing and overseeing nutrition, child survival, and HIV prevention and care programming. Ms. Wetzel-Chen earned her Bachelor's of Science in Nursing from Biola University and a Master's Degree in Public Health and Tropical Medicine from Tulane University.

Michael Zimmermann, Swiss Federal Institute of Technology (ETH), Switzerland

Dr. Michael Zimmermann, M.D., is a Professor at the Department of Health Sciences and Technology at the ETH Zürich in Switzerland, where he is Head of the Laboratory for Human Nutrition. Professor Zimmermann's research field is human nutrition with a focus on micronutrient deficiencies. His emphasis is on the health effects of iron, iodine, zinc, and calcium deficiencies, and the development of food-based strategies to correct them. His expertise includes trace mineral biochemistry, novel biomarkers, and stable isotope techniques.

Stanley Zlotkin, Sprinkles Global Health Initiative & Hospital for Sick Children, Canada

Dr. Stanley Zlotkin CM, M.D., FRCPC, is a Professor of Paediatrics, Public Health Sciences, and Nutritional Sciences at the University of Toronto, a Senior Scientist at The Hospital for Sick Children Research Institute, and a member of the Department of Paediatrics at SickKids. He received his Medical Degree from McMaster University, his fellowship training in Paediatrics at McGill, and his Doctorate in Nutritional Sciences from the University of Toronto.

In the late 1990s, Dr. Zlotkin led the development of "home fortification" with micronutrient powders and, by partnering with United Nations agencies over the past decade, has distributed essential minerals and vitamins to millions of infants and young children globally. His current research and advocacy is focused on controlling malnutrition in children around the world. He was awarded the HJ Heinz Humanitarian Award in 2001 for his international advocacy work for children, the CIHR National Knowledge Translation Award in 2006, and the Order of Canada in 2007 for his contributions to improving the lives of children. Dr. Zlotkin was appointed as the inaugural Chief, Global Child Health at SickKids in 2012.