

# INTERNATIONAL SYMPOSIUM ON **Understanding the Double Burden of Malnutrition for Effective Interventions**

**Vienna, Austria  
10 – 13 December 2018**

#dbmal

## **PROGRAMME**



Organized by the



In cooperation with the



World Health Organization



United Nations Children's  
Fund

**Advisory Committee:**

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Conference Coordination:	J. Zellinger M. Neuhold S. Padmanabhan

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**Location of the Conference:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
M-Building IAEA Board Room A  
Wagramer Strasse 5  
A-1400 Vienna, Austria

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**Working Language:** English

**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

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## MOBILE CONFERENCE APPLICATION

(for smart phones and tablets)

### Android



### iPhone



Participants are encouraged to download the conference application (App) **IAEA Conferences and Meetings** available at Google Play and the iTunes Store. The QR codes above will take you there.

Once you have installed the App simply select this conference.

The App allows you to:

- ✓ message other participants;
- ✓ access PowerPoint presentations which have been released by their authors, and abstracts of posters;
- ✓ view an up-to-date programme;
- ✓ receive announcements via push notifications.

If you wish to do so, toward the end of the conference, please provide us with your feedback using the evaluation form available on the App.

If you have questions or require assistance on the App please contact the Conference Registration Desk.

## TIMETABLE

### SUNDAY, 9 December 2018

15:00-18:30 Registration VIC / Gate 1

### MONDAY, 10 December 2018

08:00 Registration VIC / Gate 1  
Distribution of Conference Material M Building

09:30-10:00 Welcome Coffee / Tea

10:00-11:00 **Opening Session** Board Room A

11:00-12:30 **Session 1- Setting the Scene** Board Room A

12:30-13:30 *Lunch Break,  
Presentation of Learning Labs  
Poster Session*

13:30-14:30 **Session 2 – Parallel Sessions** M2, M6 and M7

14:30-16:00 **Session 3 - Preconception (1000+ days)** Board Room A

16:00-16:30 *Coffee / Tea Break  
Poster Session*

16:30-16:45 Business: How to make them a smaller part of the nutrition problem and a bigger part of the solution (Guest lecture)

16:45–18:00 **Session 4 – Maternal Nutrition** Board Room A

18:00–18:15 Wrap-up discussions and closing remarks Board Room A

18:15-20:00 *Welcome Reception* Ground Floor, M Building

<b>TUESDAY, 11 December 2018</b>			16:00-16:30	<i>Coffee / Tea Break Poster Session</i>	
09:00-10:30	<b>Session 5 - Infant and Young Child Feeding I – Breastfeeding</b>	Board Room A	16:30–18:00	<b>Session 11 - Food Systems (cont.)</b>	Board Room A
10:30-11:00	<i>Coffee / Tea Break Poster Session</i>		18:00-18:15	Wrap-up discussions and closing remarks	
11:00-12:30	<b>Session 6 - Infant and Young Child Feeding II – Complementary Feeding</b>	Board Room A	<b>THURSDAY, 13 December 2018</b>		
12:30-13:30	<i>Lunch Break and Poster Sessions</i>		09:00–10:30	<b>Session 12 -Regional Parallel Sessions</b>	Board Room A, M2, M6 and M7
13:30-14:30	<b>Session 7 - Parallel Sessions</b>	M2, M6 and M7	10:30–11:00	<i>Coffee / Tea Break Poster Session</i>	
14:30-16:00	<b>Session 8 - Undernutrition</b>	Board Room A	11:00-13:00	<b>Session 13 – Parallel Working groups and Oral abstract presentations</b>	Board Room A, M2, M6 and M7
16:00-16:30	<i>Coffee / Tea Break Poster Session</i>		13:00–14:00	<i>Lunch Break</i>	
16:30-18:00	<b>Session 8 – Undernutrition (cont.)</b>	Board Room A	14:00-15:00	<b>Session 14 - Bridging the evidence</b>	Board Room A
18:00-18:15	Wrap-up discussions and closing remarks		15:00-16:00	<b>Session 15 - Closing Session</b>	Board Room A
<b>WEDNESDAY, 12 December 2018</b>					
09:00–10:30	<b>Session 9 – Obesity</b>	Board Room A			
10:30-11:00	<i>Coffee / Tea Break Poster Session</i>				
11:00–12:30	<b>Session 9 – Obesity (cont.)</b>	Board Room A			
12:30-13:30	<i>Lunch Break and Poster Sessions</i>				
13:30–14:30	<b>Session 10 – Parallel Sessions</b>	M2, M6 and M7			
14:30–16:00	<b>Session 11 - Food Systems</b>	Board Room A			

#### **Exhibitors**

Exhibitors will be located on the ground floor from Monday, 10 December to Wednesday, 13 December:

The fact that the IAEA has made facilities available for companies does not imply that it endorses the equipment and products exhibited.

#### **Poster Presentations**

Presentations of posters will be held in the Poster areas located in the M Building: outside Conference Room M2 (1st Floor – Poster Area B) and outside Board Room A (2nd Floor – Poster Area A).

Each poster presenter has been assigned to a session during the coffee and lunch breaks of Monday, Tuesday and Wednesday. For the listing of posters please refer to the programme.

## MONDAY, 10 DECEMBER 2018

08:00–16:00 Registration and distribution of Symposium material

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09:30–10:00 *Coffee / Tea*

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**10:00–11:00**     **OPENING SESSION**  
*(Board Room A)*

**Cornelia Loechl (IAEA)**  
Welcome and opening remarks

**Aldo Malavasi**  
Deputy Director General  
Department of Nuclear Sciences and Applications (IAEA)

Opening remarks by cooperating partners  
WHO and UNICEF

**Francesco Branca**  
Director Nutrition and Health for Development (WHO) (video message)

**Victor Aguayo**  
Associate Director, Programme Division (UNICEF) (video message)

Opening remarks by the Representative of the Austrian Federal Ministry of Labour, Social Affairs, Health and Consumer Protection

**Clemens Auer**  
Special Envoy for Health for the Federal Ministry for Labour, Social Affairs, Health and Consumer Protection

Welcome, objectives and logistics

**May Abdel Wahab**  
Director  
Division of Human Health (IAEA)

**Cornelia Loechl**  
Section Head, Nutritional and Health-Related Environmental Studies (IAEA)

## MONDAY, 10 DECEMBER 2018

11:00–12:30      **SESSION 1**  
**SETTING THE SCENE**  
*(Board Room A)*

**Chairs:**            **Laurence Grummer-Strawn (WHO)**  
**France Bégin (UNICEF)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
11:00–11:15	<b>Keynote speech:</b> What drives the double burden of malnutrition and how do we overcome it?	Boyd Swinburn	New Zealand
11:15–12:30	<b>Panel discussion</b>	Rachel Nugent	United States of America
		Marie Ruel	IFPRI (International Food Policy Research Institute)
		Corinna Hawkes	UNMOVIC (United Nations Monitoring, Verification and Inspection Commission)
		Meera Shekar	The World Bank
12:30–13:30	<i>Lunch Break</i>	<i>Presentation of Learning Labs &amp; Poster Session</i>	

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## MONDAY, 10 DECEMBER 2018

### 13:30–14:30      **SESSION 2 PARALLEL SESSIONS**

#### 13:30–14:00      **Learning Labs**

Agilent (MO114)  
 INDDX (MOE79) – extended to 14:15  
 Body Surface Translations (MOE100)  
 COSMED (Exhibition booth)  
 Select Research (Exhibition booth)

<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
14:00–14:30	<b><i>In focus</i></b> (Room: M2)		
<b>Moderator:</b>	<b>Klaus Kraemer (Sight and Life)</b>		
	Iron metabolism defined using stable isotopes in obesity	Ana Carla Cepeda	Mexico
13:30–14:30	<b>REGIONAL DIFFERENCES IN THE DOUBLE BURDEN OF MALNUTRITION</b> (Oral abstract presentation I) (Room: M6)		
<b>Moderator:</b>	<b>Christine Slater (Retired IAEA Nutrition Specialist)</b>		
13:30–13:40	The double burden of malnutrition among adolescents in 57 low- and middle-income countries	Rishi Caleyachetty	United Kingdom
13:40–13:50	Double burden of malnutrition among preschool children in 24 population-based surveys: BRINDA project	Reina Engle-Stone	United States of America
13:50–14:00	The double burden of malnutrition in East Asia and the Pacific: An emerging public health concern for children	Jessica Blankenship	UNICEF (United Nations Children's Fund)
14:00–14:10	Trends of mortality attributable to child and maternal undernutrition, overweight/obesity and dietary risk factors of non-communicable diseases in sub-Saharan Africa, 1990-2015: Findings from the Global Burden of Disease Study 2015	Yohannes Adama Melaku	Ethiopia

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
14:10–14:20	Under and over-nutrition in school-aged children and adolescents, Ho Chi Minh City, Vietnam: a double burden rapidly shifting over a decade	Jolieke Van der Pols	Australia
	<b>Questions &amp; Answers</b>		

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## MONDAY, 10 DECEMBER 2018

### 13:30–14:30 SESSION 2 PARALLEL SESSIONS

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
13:30–14:30	<b>Underlying factors affecting the double burden of malnutrition</b> (Oral abstract presentations II) (Room: M7)		
<b>Moderator:</b>	<b>Jennifer Orgle (CARE)</b>		
13:30–13:40	Understanding body perceptions of adolescents in rural and urban Malawi using pictorial images of various body sizes; a cross-sectional study	Marko Kerac	United Kingdom
13:40–13:50	Bridging the Gap: Engaging Adolescents for nutrition, health and sustainable development	Ilaria Schibba	WFP (United Nations World Food Programme)
13:50–14:00	Engendering epidemiology of malnutrition among preschool children in rural Bangalore, India	Vaijyanthi Kanabur	India
14:00–14:10	Urban disparities and double burden of malnutrition in Bobo-Dioulasso? A study in the secondary city of Burkina Faso, West Africa	Augustin Nawidimbamba Zeba	Burkina Faso
14:10–14:20	'Shortness is not a disease': Conceptualization of and meanings attached to childhood height and short stature in rural Tanzania	Hinke Haisma	Netherlands
	<b>Questions &amp; Answers</b>		

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## MONDAY, 10 DECEMBER 2018

**14:30–16:00**      **SESSION 3**  
**PRECONCEPTION (1000+ DAYS)**  
*(Board Room A)*

**Chair:**            **Rafael Perez-Escamilla**  
**(Yale School of Public Health)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
14:30–14:45	1000+ days: A unique opportunity to influence lifelong health	Daniel Hoffman	United States of America
14:45–15:00	Nutrition and health of adolescent girls	David Ross	WHO (World Health Organization)
15:00–15:15	Dietary diversity in women of reproductive age	Estefanía Custodio	EC/JRC (European Commission/Joint Research Centre)
15:15–15:30	Intervention strategies to improve nutrition and health behaviour before conception	Shane Norris	South Africa
<b>Questions &amp; Answers</b>			
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16:00–16:30	<i>Coffee / Tea Break</i>	<i>Poster Session</i>	
	Hosted by the Permanent Mission of Italy to the International Organizations in Vienna		
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16:00-16:30      **Launch of the Global Nutrition Report**

Jessica Fanzo	FAO (Food and Agriculture Organization of the United Nations)
Emorn Udomkesmalee	Thailand
Obey Assery Nkya	United Republic of Tanzania

16:30–16:45      **Guest lecture**

**Moderator:**      **Cornelia Loechl (IAEA)**

Businesses: How to make them a smaller part of the nutrition problem and a bigger part of the solution

Lawrence Haddad

GAIN (Global Alliance for Improved Nutrition)

## MONDAY, 10 DECEMBER 2018

**16:45–18:00**      **SESSION 4**  
**MATERNAL NUTRITION**  
*(Board Room A)*

**Moderator:**      **Cornelia Loechl (IAEA)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
16:45–17:00	Long term consequences of maternal malnutrition for offspring health	Shane Norris	South Africa
17:00–17:15	How to assess maternal body composition during pregnancy	Rebecca Kuriyan-Raj	India
17:15–17:30	Intervention strategies to improve nutrition and health behaviour during pregnancy	Angela de Silva	WHO (World Health Organization)
	<b>Questions &amp; Answers</b>		
18:00–18:15	<b>Wrap-up discussions and closing remarks</b>		
18:15–20:00	<b>Welcome reception</b> <i>M-Building, ground-floor (MOE)</i>		

## TUESDAY, 11 DECEMBER 2018

**09:00–10:30**      **SESSION 5**  
**INFANT AND YOUNG CHILD FEEDING I –**  
**BREASTFEEDING**  
*(Board Room A)*

**Chair:**            **Daniel Hoffman (Rutgers University)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
09:00–09:15	Breastfeeding: New knowledge and old failures	Nigel Rollins	WHO (World Health Organization)
09:15–09:30	How to use stable isotope techniques for assessment of breastfeeding patterns?	Christine Slater	Retired IAEA Nutrition Specialist
09:30–09:45	Breastfeeding patterns and infant body composition	Anna Coutsoydis	South Africa
09:45–10:00	Enabling factors to promote and support breastfeeding	Maaiké Arts	UNICEF (United Nations Children's Fund)
	<b>Questions &amp; Answers</b>		
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10:30–11:00	<i>Coffee / Tea Break</i>	<i>Poster Session</i>	
	Hosted by the Permanent Mission of the Republic of Indonesia to the IAEA		

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## TUESDAY, 11 DECEMBER 2018

**11:00–12:30**      **SESSION 6**  
**INFANT AND YOUNG CHILD FEEDING II -**  
**COMPLEMENTARY FEEDING**  
*(Board Room A)*

**Chair:**            **Emorn Udomkesmalee**  
**(Mahidol University)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
11:00–11:15	Complementary feeding practices and growth	Daniel Hoffman	United States of America
11:15–11:30	Essentials of complementary feeding and national bottleneck analysis	France Bégin	UNICEF (United Nations Children's Fund)
11:30–11:45	Responsive feeding: Evidence on association with child nutrition status	Aisha Yousafzai	United States of America
11:45–12:00	How to do no harm with existing interventions? Examples of unintended effects from Guatemala and Mexico	Jef Leroy	United States of America
	<b>Questions &amp; Answers</b>		

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<i>12:30–13:30</i>	<i>Lunch Break</i>	<i>Poster Session</i>	
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## TUESDAY, 11 DECEMBER 2018

### 13:30–14:30 SESSION 7 PARALLEL SESSIONS

#### 13:30–14:00 Learning Labs

Agilent (MO114)  
 INDDX (MOE79) – extended to 14:15  
 Body Surface Translations (MOE100)  
 COSMED (Exhibition booth)  
 Select Research (Exhibition booth)

<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
13:30-14:00	<b>Update from The Wellcome Trust and WHO nutrition meeting:</b> Transforming nutrition research for better health (Room: M6)	Lindsay Keir Sophie Hawkesworth Nigel Rollins	The Wellcome Trust The Wellcome Trust WHO (World Health Organization)
13:30–14:00	<b><i>In focus</i></b> (Room: M2)		
<b>Moderator:</b>	<b>Robert Bandsma</b> (The Hospital for Sick Children)		
	Epigenetics within the double burden of malnutrition	J. Alfredo Martinez	Spain
14:00–14:30	<b><i>In focus</i></b> (Room: M2)		
<b>Moderator:</b>	<b>Daniel Hoffman</b> (Rutgers University)		
	Child’s microbiome and malnutrition	Carla Taddei	Brazil

## TUESDAY, 11 DECEMBER 2018

### 13:30–14:30 LONG-TERM CONSEQUENCES OF UNDERNUTRITION

(Oral abstract presentation III)

(Room: M7)

**Moderator:** **Kenneth Maleta**  
(University of Malawi)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
13:30–13:40	Metabolic profiles of adult survivors of severe acute malnutrition	Debbie Thompson	Jamaica
13:40–13:50	Short children with a low MUAC do not gain excessive fat with food supplementation: an observational study from Burkina Faso	Christian Fabiansen	Denmark
13:50–14:00	Long-term metabolic effects of malnutrition: Liver steatosis and insulin resistance following early-life protein restriction	Robert Bandsma	Canada
14:00–14:10	The companionship of lean mass and fat mass revisited: towards novel concepts in human body composition autoregulation	Abdul Dulloo	Switzerland
14:10–14:20	Post-discharge body composition outcomes for children treated for severe and moderate acute malnutrition using ready-to-use therapeutic food	Natasha Lelijveld	ACF (Action Against Hunger)

### **Questions & Answers**

## TUESDAY, 11 DECEMBER 2018

14:30–16:00 **SESSION 8 - UNDERNUTRITION**  
(Board Room A)

**Chair:** **Angela de Silva**  
(WHO Regional Office for South East Asia)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
14:30–14:45	Optimising the balance between metabolic capacity and metabolic load for lifelong health	Jonathan Wells	United Kingdom
14:45–15:00	Trans-generational impact of the double burden of malnutrition: A case study from India	Chittaranjan Yajnik	India
15:00–15:15	Understanding children who are both wasted and stunted: What we know from exploring existing data?	Martha Mwangome	Kenya
15:15–15:30	Linear growth and relapse from acute malnutrition; an example from Malawi	Kenneth Maleta	Malawi
<b>Questions &amp; Answers</b>			
16:00-16:30	<i>Coffee / Tea Break</i>	<i>Poster Session</i>	
16:00-16:30	<b>Global Energy Expenditure Data: Launch of the IAEA DLW International Database</b>	Alexia Alford John Speakman	IAEA China

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## TUESDAY, 11 DECEMBER 2018

**16:30-18:00**      **SESSION 8 – UNDERNUTRITION**  
**continued (Undernutrition response)**  
*(Board Room A)*

**Chair:**            **Angela de Silva**  
**(WHO Regional Office for South East**  
**Asia)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
16:30-16:45	Considerations for the Health System for addressing the Double Burden of Malnutrition	Alan Jackson	United Kingdom
16:45-17:00	Short-term effects of treatment of acute malnutrition; examples from Uganda and Burkina Faso	Henrik Friis	Denmark
17:00-17:15	Doing double duty for prevention and treatment of acute malnutrition	Nancy Aburto	WFP (United Nations World Food Programme)
17:15-17:30	Designing double duty actions in the context of acute malnutrition	Zita Weise Prinzo	WHO (World Health Organization)
	<b>Questions &amp; Answers</b>		
<b>18:00-18:15</b>	<b>Wrap up discussions and closing remarks</b>		

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## WEDNESDAY, 12 DECEMBER 2018

**09:00-10:30**      **SESSION 9 – OBESITY**  
*(Board Room A)*

**Chair:**            **Alan Jackson**  
**(Southampton General Hospital)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
09:00–09:15	Assessing metabolic health through the life-course in the context of the double burden of malnutrition	Jonathan Wells	United Kingdom
09:15–09:30	Assessing the role of diet for metabolic health	Inge Huybrechts	France
09:30–09:45	Tools for population level assessment of physical activity	Stewart Trost	Australia
09:45–10:00	Assessing the role of physical activity and sedentary behaviour for metabolic health	John Speakman	China
	<b>Questions &amp; Answers</b>		
10:30–11:00	<i>Coffee / Tea Break</i>	<i>Poster Session</i>	

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## WEDNESDAY, 12 DECEMBER 2018

**11:00–12:30**      **SESSION 9 – OBESITY continued**  
**(Obesity response)**  
*(Board Room A)*

**Chair:**            **Alan Jackson**  
**(Southampton General Hospital)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
11:00–11:15	Improving the Quality of Nutrition Counselling in Primary Health Care Settings	Peggy Koniz-Booher	United States of America
11:15–11:30	Social network interventions to increase physical activity	Antonios Proestakis	EC/JRC (European Commission/Joint Research Centre)
11:30–11:45	School and community based interventions for the prevention of obesity and NCDs in Europe: ToyBox-Study and feel4diabetes-study	Yannis Manios	Greece
	<b>Questions &amp; Answers</b>		
11:00–13:00	<b>Working Group (by invitation only)</b> <i>(MOE79)</i>		
12:30–13:30	<i>Lunch Break</i>	<i>Poster Session</i>	

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## WEDNESDAY, 12 DECEMBER 2018

### 13:30–14:30 SESSION 10 PARALLEL SESSIONS

#### 13:30–14:00 Learning Labs

Agilent (MO114)  
INDDX (MOE79) - extended to 14:15  
Body Surface Translations (MOE100)  
COSMED (Exhibition booth)  
Select Research (Exhibition booth)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
13:30–14:00	<b><i>In focus</i></b> <i>(Room: M2)</i>		
<b>Moderator:</b>	<b>Victor Owino (IAEA)</b>		
	Impact of environmental toxins on child malnutrition	Yun Yun Gong	United Kingdom
14:00–14:30	<b>ENVIROMENTAL HAZARDS</b> (Oral abstract presentation IV) <i>(Room: M2)</i>		
<b>Moderator:</b>	<b>Victor Owino (IAEA)</b>		
14:00–14:10	Linkage between Environmental Enteric Dysfunction and Linear Growth from 6-12 months of age among rural Kenyan children with poor access to sanitation facilities	Silvenus Ochieng Konyole	Kenya
14:10–14:20	Human exposure to food and environmental contaminants as potential drivers of the double burden of malnutrition	Eze Ukpai Agwu	Nigeria
	<b>Questions &amp; Answers</b>		

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## WEDNESDAY, 12 DECEMBER 2018

**13:30–14:30**      **ASSESSMENT OF THE DOUBLE BURDEN  
OF MALNUTRITION**  
(Oral abstract presentations V)  
(Room: M6)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>Moderator:</b>	<b>Alexia Alford (IAEA)</b>		
13:30–13:40	Multidimensional child growth in India: Exploring the potential of using the Capabilities Approach for empirical analysis focusing on very young children	Hinke Haisma	Netherlands
13:40–13:50	Assessment of body composition in young Caucasian adults: Validation of a single- and a multi-frequency BIA against isotope dilution technique	Maharani Retna Duhita	Indonesia
13:50–14:00	Exclusive breastfeeding rate by maternal recall is overestimated compared with the dose-to-mother isotope dilution method: Evidence from Asian countries	Pattanee Winichagoon	Thailand
14:00–14:10	Increases in body mass and body water in pregnancy and relationship to weight of the child and placenta at birth	Chittaranjan Yajnik	India
14:10–14:20	Methods for measurement of body composition in rural Zimbabwe using Bio- impedance and other techniques transported by motorbike	Joe Piper	United Kingdom
	<b>Questions &amp; Answers</b>		

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## WEDNESDAY, 12 DECEMBER 2018

**13:30–14:30**      **DOUBLE DUTY ACTIONS FOR THE  
DOUBLE BURDEN OF MALNUTRITION**  
(Oral abstract presentations VI)  
(Room: M7)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>Moderator:</b>	<b>Marie Ruel (IFPRI)</b>		
13:30–13:40	Addressing the double burden of malnutrition in West-Africa: A twelve-year experience with institutional partners in Benin, Burkina Faso and Mali	Hélène Delisle	Canada
13:40–13:50	Making every move count: Double duty innovations for nutrition and health	Stuart Gillespie	IFPRI (International Food Policy Research Institute)
13:50–14:00	Formative research to identify actions to address the double burden of malnutrition in young children in Rwanda	Heather Stobaugh	United States of America
14:00–14:10	Impact of preventive supplementary feeding using a Lipid-Based Nutrient Supplement and a small cash transfer on child overweight: results of a cluster-randomized controlled trial in rural Mali	Tanimoune Mahamadou	WFP (United Nations World Food Programme)
14:10–14:20	Impact of breastfeeding promotion on breastfeeding rates in a hospital cohort	Laila Sikanderli	Pakistan

### **Questions & Answers**

## WEDNESDAY, 12 DECEMBER 2018

**14:30–16:00**      **SESSION 11 - FOOD SYSTEMS**  
*(Board Room A)*

**Chair:**            **Stineke Oenema (UNSCN)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
14:30–14:45	Food Insecurity and the double burden of malnutrition	Rafael Perez-Escamilla	United States of America
14:45–15:00	Food systems: Their role in improving diets sustainably and addressing the double burden of malnutrition	Jessica Fanzo	FAO (Food and Agriculture Organization of the United Nations)
15:00–15:15	Shaping food systems for children	France Bégin	UNICEF (United Nations Children's Fund)
15:15–15:30	The Philippines' "Unang Yakap" (First Embrace): Implementing an Integrated Quality Improvement Practice for Newborn Health and the Baby-Friendly Hospital Initiative	Anthony Calibo	Philippines
	<b>Questions &amp; Answers</b>		
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<i>16:00–16:30</i>	<i>Coffee / Tea Break</i>	<i>Poster Session</i>	

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## WEDNESDAY, 12 DECEMBER 2018

**16:30–18:00**      **SESSION 11**  
**FOOD SYSTEMS** *continued (Response)*  
*(Board Room A)*

**Chair:**            **Stineke Oenema (UNSCN)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
16:30–16:45	Chilean Healthy Eating Law	Ricardo Uauy	Chile
16:45–17:00	Regulatory efforts in Mexico: Impact of taxation	Simon Barquera	Mexico
17:00–17:15	Assessing food environments and monitoring policy implementation	Boyd Swinburn	New Zealand
17:15–17:30	The opportunity for urban planning to encourage healthier living	Vicente Domingo	Spain

### **Questions & Answers**

**18:00–18:15**      **Wrap-up discussions and closing remarks**



## THURSDAY, 13 DECEMBER 2018

**09:00–10:30**      **SESSION 12**  
**REGIONAL PARALLEL SESSIONS:**  
**AFRICA (A)**  
*(Board Room A)*

**Chair:**            **Adelheid Onyango**  
**(WHO Regional Office for Africa)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
09:00–09:10	Examples from the IAEA's Technical Cooperation programme in nutrition	Shaukat Abdulrazak	IAEA
09:10–09:25	Evidence base on the region-specific context, causes, and health and economic consequences of the double burden of malnutrition	Shane Norris	South Africa
09:25–09:35	Policies and measures to address the double burden of malnutrition and diet-related NCDs in the African Region	Juddy Maureen Jean-Baptiste	Seychelles
09:35–09:45	International Code of Marketing of Breastmilk Substitutes: Kenya country example	Betty Mogesi Samburu	Kenya
09:45–09:55	Understanding the double burden of malnutrition and approaches to tackle it: Lessons from South Africa	Tshimi Lynn Moeng Mahlangu	South Africa
	<b>Discussion on lessons learned and way forward</b>		

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## THURSDAY, 13 DECEMBER 2018

**09:00–10:30**      **SESSION 12**  
**REGIONAL PARALLEL SESSIONS:**  
**ASIA/PACIFIC (B)**  
*(Room: M6)*

**Chair:**            **Jessica Blankenship (UNICEF East  
Asia and Pacific Regional Office)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
09:00–09:10	Examples from the IAEA's Technical Cooperation programme in nutrition	Petra Salame	IAEA
09:10–09:30	Addressing the double burden of malnutrition: Double duty actions in the health systems response to reduce maternal undernutrition	Angela de Silva Juliawati Untoro	WHO (World Health Organization) WHO (World Health Organization)
09:30–09:40	Strengthening Maternal Nutrition Data for Policy and Program in Selected ASEAN Countries	Emorn Udomkesmalee	Thailand
09:40–09:50	Commentary <b>Discussion on lessons learned and way forward</b>	C. Yajnik	

## THURSDAY, 13 DECEMBER 2018

**09:00–10:30**      **SESSION 12**  
**REGIONAL PARALLEL SESSIONS:**  
**EUROPE, CENTRAL ASIA AND**  
**EASTERN MEDITERRANEAN (C)**  
*(Room: M2)*

**Chair:**            **Corinna Hawkes (City University of London)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
09:00–09:10	Examples from the IAEA's Technical Cooperation programme in nutrition	Ludmilla Wiszczor	IAEA
09:10–09:20	Overview of efforts to address unhealthy diets, prevent obesity and eradicate pockets of undernutrition in the WHO European Region: surveillance, policy development and evaluation	Jo Martin Jewell	WHO (World Health Organization)
09:20–09:30	Development of a Regional Framework on Obesity Prevention in the Eastern Mediterranean Region (EMR)	Ayoub Al Jawaldeh	WHO (World Health Organization)
09:30–09:40	Using market regulations to tackle overweight and obesity: An example from Norway	Knut-Inge Klepp	Norway
09:40–09:50	Necessity of establishing Regional Nutrition Partnership and Capacity Building Network in Central Asia and Caucasus	Amirhossein Yarparvar	UNICEF (United Nations Children's Fund)
	<b>Discussion on lessons learned and way forward</b>		

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## THURSDAY, 13 DECEMBER 2018

**09:00–10:30**      **SESSION 12**  
**REGIONAL PARALLEL SESSIONS:**  
**LATIN AMERICA and the CARIBBEAN (D)**  
*(Room: M7)*

**Chair:**            **Trevor Hassell**  
**(Chairman Barbados NCD Commission)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designated Member State/Organization</i>
09:00–09:10	Examples from the IAEA's Technical Cooperation programme in nutrition	Pilar Murillo	IAEA
09:10–09:20	Regional overview	Ruben Grajeda	WHO (World Health Organization)
09:20–09:30	School-based interventions to tackle the double burden of malnutrition in the Caribbean	Kimberly Ashby-Mitchell	Saint Lucia
09:30–09:40	Crece Contigo policy programme in Chile	Ricardo Uauy	Chile
09:40–09:50	Brazilian commitments to the UN Decade of Action on Nutrition	Eduardo Nilson	Brazil
	<b>Discussion on lessons learned and way forward</b>		

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<i>10:30–11:00</i>	<i>Coffee / Tea Break</i>		
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## THURSDAY, 13 DECEMBER 2018

### 11:00–13:00      **SESSION 13 – PARALLEL WORKING GROUPS & ORAL ABSTRACT PRESENTATIONS**

#### **MICRONUTRIENTS**

(Oral abstract presentations VII)

(Room: M7)

**Chair:            Christine Slater  
(Retired IAEA Nutrition Specialist)**

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
11:00–11:10	Overweight and micronutrient malnutrition among children under five years of age in Mongolia: a dual burden of epidemic proportions	Jessica Blankenship	UNICEF (United Nations Children's Fund)
11:10–11:20	Iron deficiency is associated with higher fat mass in Cambodian infants: The Winfood Project	Frank Wieringa	France
11:20–11:30	Tipping the balance of vitamin A status: The double burden of vitamin A deficiency and excess in African children	Sherry Tanumihardjo	United States of America
11:30–11:40	Understanding the co-occurrence of overweight and inadequate iodine intake: national cross-sectional study among Tunisian school-age children in 2012	Radhouene Doggui	Tunisia
11:40–11:50	Maternal iron absorption and iron transfer to the fetus during pregnancy in normal-weight and overweight/obese women and effects on infant iron status: a prospective multi-center case control study	Nicole Ursula Stoffel	Switzerland
11:50–12:00	Possible mechanism of double burden of malnutrition: Effect of nutrient deficiency on resting metabolic rate status	Khadijeh Mirzaei	Iran, Islamic Republic of
12:00–12:10	Sub-clinic inflammation a factor associated with both cardio-metabolic risk factors and micronutrient deficiencies in adults of Ouagadougou; Burkina Faso	Augustin Nawidimbasba Zeba	Burkina Faso

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
12:10–12:20	The double burden of overweight and micronutrient deficiencies among the Moroccan population	Hassan Aguenou	Morocco
12:20–12:30	How much breast milk do young Filipino kids consume? Data from vitamin A safety assessment study	Carl Vincent Cabanilla	Philippines
12:30–12:40	Food insecurity, nutritional anthropometry markers and risk of micronutrients deficiency in households of preschool children and women in rural communities of Osun, Nigeria	Michael Oderinde	Nigeria

## THURSDAY, 13 DECEMBER 2018

### 11:00–13:00      **SESSION 13 – PARALLEL WORKING GROUPS & ORAL ABSTRACT PRESENTATIONS**

#### **POLICY ACTIONS**

(Oral abstract presentations VIII)

(Room: M6)

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
<b>Moderator:</b>	<b>Fouad Hassaan (Public Health Consultant)</b>		
11:00–11:10	How harmonized is national guidance on addressing the dual burden of malnutrition? A policy review of USAID priority countries	Peggy Koniz-Booher	United States of America
11:10–11:20	Agriculture to Nutrition (ATONU) - Making agriculture work for nutrition: From research evidence to policy	Farai Alice Gwelo	South Africa
11:20–11:30	The Zambia Good Food Certification mark - Fighting the double burden through certification marks for nutritious foods	Raphael Siwiti	WFP (United Nations World Food Programme)
11:30–11:40	The Child Support Grant in Thailand: a solution for addressing the double burden of malnutrition?	Christina Popivanova	UNICEF (United Nations Children's Fund)
11:40–11:50	Double burden of malnutrition: The role of framing in development of political priority and policy agendas for the rise in nutrition-related non-communicable diseases in Tamil Nadu, India	Shilpa Constantinides	United States of America

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## THURSDAY, 13 DECEMBER 2018

### 11:00–13:00 SESSION 13 – PARALLEL WORKING GROUPS & ORAL ABSTRACT PRESENTATIONS

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<i>Time</i>	<i>Title</i>	<i>Name</i>	<i>Designating Member State/Organization</i>
11:00–13:00	<b>Nutrition findings from WFP and 3ie Impact Evaluations of Humanitarian Assistance</b> <i>(Board Room A)</i>		
11:00–13:00	<b>Working Groups (by invitation only)</b>		
11:00–13:00	<b>Global Nutrition Report Stakeholder Group meeting (by invitation only)</b>		

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13:00–14:00 *Lunch Break*

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### 14:00–15:00 SESSION 14 BRIDGING THE EVIDENCE

**Chair:** Lynnette Neufeld (GAIN)

14:00–14:15	<b>Keynote speech:</b> How to strengthen the link between biology and implementation for sustainable action	Emorn Udomkesmalee	Thailand
14:15–15:00	<b>Panel discussion</b>	Klaus Kraemer Jef Leroy Gretel Pelto Chowdhury Jalal Obey Assery Nkya	Switzerland United States of America United States of America Canada United Republic of Tanzania

### 15:00–16:00 SESSION 15 CLOSING SESSION *(Board Room A)*

**Moderator:** Cornelia Loechl (IAEA)

*IAEA/WHO/UNICEF*



## POSTER PRESENTATIONS

MONDAY LUNCH

### EPIDEMIOLOGY OF DBM

*(Poster Area B)*

<i>Poster Board</i>	<i>No. of abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B1	11	K. Karthigesu	Sri Lanka	Nutritional status and caloric consumption of children from communities in urban division of Jaffna divisional secretariat area: A post war context of Sri Lanka
B2	12	I. Senbanjo	Nigeria	Co-existence of maternal overweight and obesity with childhood stunting in rural and urban communities of Lagos State, Nigeria
B3	15	W. Hounkpatin	Benin	The Nutritional Double Burden in Benin
B4	30	M. Bouchenak	Algeria	Assessment of Nutritional Status and Growth in School Children of Oran City (Western Algeria)
B5	32	M. Diaz	Cuba	Evolution of the double burden of malnutrition during 15 years in the Cuban adult population
B6	38	S. Keshavarz	Iran	Metabolically unhealthy obesity phenotypes and the Risk of Double Burden of Malnutrition
B7	41	B. Koon Poh	Malaysia	The Double Burden of Malnutrition in Asia: Prevalence's and Body Composition of Children from POCAsia Countries
B8	42	P. Nguyen	IFPRI	Trends and Inequity in the Double Burden of Malnutrition in India between 2006-2016: Insights from Nationally Representative Surveys
B9	58	K. Hassen	Ethiopia	Dual Burden of Malnutrition Among Adolescents of Smallholder Coffee Farming Households of Jimma Zone, Southwest Ethiopia
B10	59	G. Pita-Rodríguez	Cuba	Double burden of malnutrition in Cuban preschool children. Obesity, anemia and iron deficiency
B11	75	F. Alumasa	Eswatini	Burden of Malnutrition in Clients Enrolled in ART and TB Services in Swaziland

<i>Poster Board</i>	<i>No. of abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B12	90	H. Ben Gharbia	Tunisia	Double burden of malnutrition among female adolescents in Greater Tunis area and its associated factors
B13	91	A. Zárate-Ortiz	Netherlands	The dietary patterns and double burden of malnutrition in Mexican adolescents: Results from the National Survey of Health and Nutrition (ENSANUT-2006).
B14	93	S. Das	Bangladesh	Double Burden of Malnutrition among Mother-Child Pairs of Bangladesh: Prevalence and Socio-demographic Determinants
B15	94	S. Sassi	Tunisia	Double burden of malnutrition among child-mother pairs: magnitude, and associated factors of co-occurrence of child anemia and mother abdominal adiposity in an urban area in North Africa
B16	95	M. Abassi	Tunisia	Gender inequalities in coexistence of excess adiposity and iron deficiency at individual level and their socioeconomic patterning in a nutrition transition context in North Africa
B17	96	M. Elh Hallarou	Niger	Epidemiology of the double burden of malnutrition in Niger: longitudinal analysis of mother and child nutritional status form 1992-2012
B18	97	B. Bajić	Montenegro	Double burden of obesity and malnutrition in Montenegro – current status and challenges
B19	102	A. Zeba	Burkina Faso	Poverty and female gender the common traits of the double burden of undernutrition and cardio-metabolic risk factors among adults of Ouagadougou, Burkina Faso (West Africa).
B20	104	A. Zeba	Burkina Faso	Dietary patterns and physical inactivity, two contributing factors to the double burden of malnutrition among adults in Burkina Faso (West Africa)
B21	115	S. Barbazza	Action Against Hunger	A secondary data analysis of food security indicators in households affected by a double burden of malnutrition in Saharawi refugee camps in southwest Algeria

<i>Poster Board</i>	<i>No. of abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B22	131	C.Yajnik	New Zealand	Tale of two extreme worlds – the big and the small
B23	133	C. Grijalva-Eternod	United Kingdom	The rapid change in the double burden of malnutrition in a protracted refugee context: Comparison of two cross-sectional nutrition surveys of Saharawi refugees living in camps in Algeria
B24	142	J. Blankenship	UNICEF	Associated factors to the double burden of malnutrition in mother-child dyads in the Republic of the Marshall Islands
B25	375	R. Verstraeten	United States of America	Multiple malnutrition burdens in children under five in West Africa

## POSTER PRESENTATIONS

MONDAY AFTERNOON

IYCF 1000 DAYS

### *(Poster Area A)*

<i>Poster Board</i>	<i>No. of abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A16	13	L. Hussein	Egypt	Breast milk fatty acid composition in Egyptian women delivered at term and prematurely and the omega-6 to omega-3 ratios
A17	60	E. Huaman Guadalupe	Peru	Level of cadmium, lead in maternal blood, placenta, umbilical cord blood and fetal death in the Metallurgical City of La Oroya Peru
A18	77	C. Taylor-Bryan	Jamaica	Exploring Fat Oxidation as the Link Between Early Life Factors and Body Composition in Peripubertal Jamaican Children
A19	84	S. G. Weisstaub	Chile	Breastfeeding and Body Composition in Latin American Infants
A20	114	L. Nasreddine	Lebanon	Nutritional Status and Feeding Practices among 0-2 Year-Old Children in Lebanon
A21	119	N. M. Coulibaly	Burkina Faso	Malnutrition and inadequate breastfeeding practice among mother-baby pairs during the first six month.
A22	120	R. Teixeira	Brazil	Breastfeeding and reasons for weaning among mothers and infants from the Southern Brazil belonged to a multi-centre study
A23	122	I. Petersohn	Germany	Adolescent Health: Long term health effects of pubertal timing in Mexican women
A24	145	C. Costa	Brazil	Consumption of sugary drinks and addition of honey or sugars to the liquids in infants up to two years-of-age belonging to a longitudinal multicenter study
A25	159	H. Aguentaou	Morocco	The burden of obesity: Alteration of Oral Fatty Acids Detection System Contributes to the Development of Obesity among Adults-Morocco

<i>Poster Board</i>	<i>No. of abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A26	183	S. OIYE	Kenya	Predictors of maternal breastmilk output as possible determinants of infant growth variations in a high HIV prevalent area in Kenya
A27	193	L. D. Huy	Vietnam	Knowledge of breastfeeding among mothers in Vietnam in 2017
A28	209	G. Trilok Kumar	India	Infant growth trajectories and childhood growth status in India
A29	217	E. Daoud	Egypt	Impact of Breast- Fed versus Bottle- Fed on Plasma Renin and Aldosterone activity in Infancy
A30	237	F. Hitzert	Netherlands	The associations between maternal body composition and breast milk output: An explorative causal inference approach
A31	240	M. A. Radouani	Morocco	Antenatal care in Rabat and outskirts, Morocco: Risk factors for non-attendance
A32	241	M. A. Radouani	Morocco	Exclusive breastfeeding in Rabat and outskirts, Morocco: Risk factors for non-compliance
A33	243	M. A. Radouani	Morocco	Risk factors and epidemiology of neural tube defects in Morocco
A34	272	A. Liu	China	Exposure to Chinese Famine in Fetal life and The Risk of Type 2 Diabetes in Adulthood
A35	293	J. Ojo	Nigeria	Determination of Babies' Intake of Trace Elements Through Breastmilk and Mothers' Nutritional Status in Ile-Ife, Nigeria

## POSTER PRESENTATIONS

TUESDAY MORNING

### ASSESSMENT

#### *(Poster Area B)*

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<i>Poster Board</i>	<i>No. of Abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B26	22	K. Nguo	Australia	The energy needs of adults aged 65 years and over using doubly labelled water: current evidence and opportunities for international data sharing.
B27	46	A. Aouidat	Tunisia	Relationship of body mass index to percent body fat determined by deuterium isotopic dilution and impedancemetry among schoolchildren in Tunisia
B28	66	H. Ramuth	Mauritius	Underestimation of the prevalence of excessive body fatness in primary school children in Mauritius: assessment of body composition by isotope dilution technique
B29	71	V. Ramessur	Mauritius	Body composition assessment of young adults in Mauritius: comparison between dual-energy X-ray absorptiometry and isotope dilution technique
B30	76	H.F.J. Lokonon	Benin	Lactating mother's high body fat measured by stable isotope technique coexisting with high risk of 4 to 5.5 months stunted children in rural Southern Benin
B31	80	N. Kourkoumelis	Greece	The effect of ambient evaporative loss on the reproducibility of deuterium oxide dilution measurements assessed by FTIR spectroscopy
B32	98	M. A. Monyeki	South Africa	Body fat assessment using Bioelectrical Impedance Analysis and Deuterium Dilution among South African children: BC-IT study
B33	108	G. Zanella	United Kingdom	Using accelerometry devices to capture intra-household seasonal patterns of energy expenditure, time-use, and food intake in agricultural and rural livelihoods: Findings from Ghana

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<i>Poster Board</i>	<i>No. of Abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B34	112	S. Kangas	Finland	Measuring body composition with bio-electrical impedance analysis in acutely malnourished children: lessons from operational research
B35	116	H. L. Nashandi	Namibia	Using body composition techniques to determine the prevalence of overweight and obesity among school children 8-11 years of age in Namibia"
B36	118	W. Kriengsinyos	Thailand	Assessment of resting, activity and total energy expenditure in free-living Thai elderly: A pilot study
B37	136	A. F. Hadžiomeragić	Bosnia and Herzegovina	Problem of Obesity in Bosnia and Herzegovina and Use of Nuclear Techniques in Efforts to Counteract It
B38	140	J. Jean-Baptiste	Seychelles	Evaluating an Intervention Programme on Obesity and Obesity Related Risk Factors in Children
B39	147	M. Moirano	Uruguay	Body composition using the deuterium oxide technique in older people from Uruguay
B40	164	S. Whyte	Jamaica	The relationship of breast milk intake as assessed with deuterium dilution on haemoglobin levels of infants in urban Jamaica
B41	177	G. Ramolefhe	Botswana	The Use of Anthropometrics, BMI and Isotope Dilution Techniques in assessing Double Burden Malnutrition in Children (3-5 years) in the Northern and Southern part of Botswana
B42	194	S. Ariff	Pakistan	Body composition during first year of life in a cohort of healthy Pakistani children
B43	213	H. B. Jemaa	Tunisia	Validation of impedance-based equations for the prediction of body composition as measured by deuterium dilution in North African Arabic children
B44	214	A. Pallaro	Argentina	Contribution of body fat mass measurements in the global assessment of nutritional status in Argentinean children

<i>Poster Board</i>	<i>No. of Abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B45	215	S. M. Vidueiros	Argentina	Contribution of isotopic techniques in the diagnosis of chronic non-communicable diseases: a community experience
B46	283	A. Badaloo	Jamaica	Use of deuterium dilution technique in the assessment of sarcopenic obesity in urban Jamaican elderly
B47	295	K. Bougma	Burkina Faso	Implementation of a 3D imaging device to collect automated anthropometry measurements in a population survey: lessons learned from training survey teams in Guatemala
B48	374	T. M. T. Mai	Vietnam	Use of different international criteria to quantify under and over nutrition in children and adolescents in Ho Chi Minh City, Vietnam—the need for consensus on optimal definitions
B49	443	E. Grammatikaki	European Commission	Development of a toolkit to support food and alcoholic beverages marketing restrictions in the EU



## POSTER PRESENTATIONS

TUESDAY LUNCH

### MICRONUTRIENTS

*(Poster Area A)*

<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A1	5	C. Nwuke	Nigeria	Anemia Screening and Micronutrient Status of Pregnant Women in Rural and Semi-Urban Primary Healthcare Centers in Ikwuano Umuahia of Abia State in Nigeria
A2	31	K. B. Nedjadi	Algeria	Frequency of Malnutrition (Undernutrition, Overweight/ Obesity) and Prevalence of Iron Deficiency in Western Algeria Infants
A3	86	M. Alshafei	Egypt	Burden of obesity on Vitamin D status and bone health in obese Egyptian children.
A4	151	M. Idrissi	Morocco	Assessing of Sodium and potassium intake in sample of school-aged children from Morocco.
A5	157	S. Konyole	Kenya	The association between stunting, wasting and breastfeeding, and fat-free mass and fat mass in Kenyan children aged 6 and 15 months
A6	161	A. Rami	Morocco	Evaluation of iodized salt and iodine intake, and determination of iodine deficiency in schoolchildren in the region of Rabat
A7	176	H. Aguenau	Morocco	Dietary Calcium Intake in Sample of Moroccan schoolchildren and adolescents
A8	178	S. Filteau	Canada	Effects of HIV and ART on diabetes in Tanzanian adults
A9	203	Y. Taboz	Morocco	Nutrient density of food consumed in Morocco
A10	227	H. Aguenau	Morocco	Urinary calcium in Moroccan schoolchildren and adolescents
A11	229	T. Pongcharoen	Thailand	Birth weight and weight gain during early life in relation to body composition and cardiovascular disease risk of rural Thai adolescents
A12	230	M. Santoso	Indonesia	Assessment of Micronutrient Status in Children Under Five in Java Indonesia

<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A13	253	E.R. Huaman Guadalupe	Peru	Food Security and Prevalence of Anemia Chronic Nutrition in Children (AS) Under Five Years of the Indigenous Communities Ashaninkas Puerto Ocopa, Puerto Prado, Peru
A14	288	P. Marinda	Zambia	The potential contribution of small fish to dietary nutrient adequacy and nutritional status of women of reproductive age and under-five children in Zambia
A15	289	B. Ekesa	CGIAR/Bioversity	Content of iron and vitamin A in participatory improved complementary dishes for children in Central Uganda

**UNDERNUTRITION  
(Poster Area B)**

<i>Poster Board</i>	<i>No. of Abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B50	7	X. Mkhize	South Africa	Prevalence of malnutrition among older peri-urban farmers with modifiable risk factors: A food and nutrition insecurity study, South Africa
B51	8	J. Chileshe	Zambia	Body Composition (Unhealthy Fat Mass %) Was Associated with Stunting in Supposedly Healthy Children Aged 3-5 Years Old In Ndola, Zambia
B52	48	S. Galal	Egypt	Factors associated with malnutrition of children under-five-years in an informal area in Egypt
B53	113	E. Amare	Ethiopia	Undernutrition and associated factors among school age children in Southern Ethiopia
B54	124	B. Grenov	Denmark	Wasting, but not stunting, is associated with reduced fat-free mass index in Cambodian children aged 6 and 15 months
B55	126	P. Mwene-Batu	Democratic Rep. of the Congo	Malnutrition in childhood and chronic diseases in adulthood in the context of Eastern DR Congo: a longitudinal study protocol

<i>Poster Board</i>	<i>No. of Abstract-</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B56	129	M. M. Islam	Bangladesh	Efficacy of F-100, diluted F-100, and infant formula as rehabilitation diet for infants aged <6 months with severe acute malnutrition: A randomized clinical trial
B57	135	J. Piper	United Kingdom	Independent and combined effects of IYCF and WASH on body composition: analysis within the SHINE trial
B58	190	M. Sukati	FAO	National Income and Malnutrition in Africa: a Rapid Analysis
B59	261	B. Chakraborty	Netherlands	"We even struggle with the earth": Parents' Perspectives on the Capabilities for Healthy Child Growth in Haor Region of Bangladesh
B60	287	N. Lelijveld	Canada	Serum metabolomics analysis shows no longer-term metabolic consequences in children that survived severe acute malnutrition 7 years post-discharge: ChroSAM study
B61	294	M. Qorbani	Iran	Economic inequality in prevalence of underweight and short stature in children and adolescents: the weight disorders survey of the CASPIAN IV study.

## POSTER PRESENTATIONS

WEDNESDAY MORNING

### OBESITY

*(Poster Area A)*

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A1	9	A. Fofana	Mali	Magnitude and risk factors of obesity among children aged 8-11 years of primary schools of Bamako
A2	18	D. Austys	Lithuania	Cardiovascular Diseases and Adipose Tissue Depots in Different Anatomic Locations
A3	19	C. Semanova	Hungary	The Prevalence and Economic Burden of Obesity in Hungary
A4	24	J. E. Wong	Malaysia	Physical Activity and Adiposity: Findings from the Preventing Obesity among Children in Asia (POCAsia) study
A5	45	A. Aouidat	Tunisia	Physical activity level assessed by accelerometer and PAQ-C in Tunisian children
A6	57	L. Li	China	The Association of the Dietary Approaches to Stop Hypertension (DASH Diet) With Overweight/Obesity in Chinese Schoolchildren
A7	65	E. Nasser	Iran	Fluid intake among the overweight and obese Iranian adults
A8	70	S. K. Wu	Malaysia	Ethnic differences in nutritional status and body composition among Malaysian children
A9	72	S. Mendes	Portugal	A Decade of Childhood Obesity in Europe – Experiences from WHO/COSI Portugal 2008-2016
A10	83	J. P. Dipasupil	Philippines	Prevalence of Adolescent Overweight and Obesity Derived from School Medical Records in Baguio City: Observational Study
A11	117	M. Romanenko	Ukraine	Dietary pattern association with overweight and obesity in urban Ukrainian population

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A12	149	J. Senadhira	Sri Lanka	Emerging Lifestyle factors related to rising obesity and noncommunicable diseases in Sri Lanka, a qualitative study.
A13	152	N. De Alwis	Sri Lanka	Burden and Trends of Obesity Related Selected Cancers in Sri Lanka: Review of National Cancer Registry Data
A14	154	A. Diouf	Senegal	Body fatness and its relationships with lipid profile in Senegalese school-aged children
A15	167	R. C. Villegas-Valle	Mexico	Clinical Markers of the Metabolic Syndrome and Insulin Resistance in Youth from Northern Mexico
A16	172	F. Ouyang	China	Association between adiposity measures and metabolic risk factors among Chinese toddlers
A17	199	C. Oladoyinbo	Nigeria	Nutritional status and prevalence of diabetes among Artisans in Abeokuta Local Government Area, Ogun State
A18	205	O. Akinbule	Nigeria	Behavioural risk factors for cardiovascular diseases and Nutritional anthropometry of students of public tertiary institutions in Abeokuta, Ogun State, Nigeria.
A19	206	A. Then de Perdomo	Dominican Republic	Characteristics of body composition and cardiovascular risk in women of the Dominican Republic
A20	212	C. Duante	Philippines	Factors Associated with Overnutrition Among Adults, 20 Years and over: Results from the 2013 National Nutrition Survey, Philippines
A21	232	F. Barich	Morocco	Association of Obesity and Socio-economic status among Women of Childbearing Age Living in Urban area of Morocco
A22	236	M. M. Husain	Bangladesh	Obesity Pattern in the middle-class population of an area of Dhaka City
A23	256	A. Gupta	India	Prevalence of pediatric metabolic syndrome and associated risk factors among school age children of 10-16 years living at high altitude region of Himachal Pradesh, India

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
A24	278	J. Watterworth	Canada	Investigating the risk factors for low physical activity levels in preschool-aged children in a densely populated urban community in Bangladesh

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## POSTER PRESENTATIONS

WEDNESDAY LUNCH

### FOOD SYSTEMS

*(Poster Area B)*

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B1	61	E.R. Huaman Guadalupe	Peru	Level of cadmium, lead and hemoglobin in the blood of pregnant mothers metallurgical center Oroya Peru
B2	155	R. Malik	India	Double Burden of Malnutrition and Chronic Disease Risk Among Mother-Child Dyads within the Same Household in Urban Poor Settings in India
B3	156	M. Vargas	Philippines	The Double Burden of Malnutrition in the Philippines: Trend from National Nutrition Surveys, 1989 - 2015
B4	160	H. Aguenou	Morocco	Sugar Taste Thresholds in Moroccan population
B5	175	H. Aguenou	Morocco	Acceptance of sugar reduction in processed foods among Moroccan population
B6	184	Y. Guennoun	Morocco	Determination of the salty taste threshold in the Moroccan population
B7	188	S. Dalzell	United Kingdom	Body composition in Gambian women: impact and implications of rural-to-urban migration and the nutrition transition.
B8	189	L. Nyiraneza	WHO	Double burden of malnutrition in Rwanda: Systematic review of Rwandan Demographic Health Survey, 2005, 2010 and 2015
B9	197	S. E. Querol	EU/JRC	Child growth patterns in Rwanda
B10	201	M. Miranda	Bolivia	Malnutrition in all its forms and socioeconomic status in Bolivia: who are more affected?
B11	204	E. Rhodes	United States	Urban residence is associated with higher prevalence of individual-level double burden of malnutrition in Malawian women

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B12	208	I. Angeles-Agdeppa	Philippines	Existence of Double Burden of Malnutrition among Filipino Children in the same Agegroups: Is there a Difference in the Nutrients Intake?
B13	211	A. Baharudin	Malaysia	Trends of Double Burden Malnutrition Among Under Five Children in Malaysia: Findings from A National Landscape Analysis
B14	216	Y. Guennoun	Morocco	Salt reduction in bread among Moroccan population
B15	221	M. A. Amadou	Niger	Prevalence of the double burden of malnutrition in households of Niamey city in Niger
B16	231	M. A. Dhansay	South Africa	The dual burden of maternal and child malnutrition – evidence from national surveys in South Africa over a decade
B17	234	M. E. Diaz	Cuba	Overweight, obesity, underweight and sarcopenia in the elderly of Latin America and the Caribbean
B18	239	H. Doctor	WHO	Socioeconomic Factors Associated with the Double Burden of Malnutrition among Women in Mozambique: A Cross Sectional Analysis of Demographic and Health Surveys from 1997 to 2011
B19	255	A. Gupta	India	Prevalence of underweight, overweight and obesity and their associated risk factors amongst geriatric population living at high altitude region of rural Uttarakhand, India
B20	269	N. T. Thuy	Vietnam	Trends of Double Burden of Malnutrition Among Children Under Five Years in Vietnam: A Review from National Surveys During 2000-2015
B21	270	G. N. Khan	Pakistan	Prevalence and inequality in double burden of malnutrition in Pakistan: analysis of national level cross-sectional survey data
B22	290	E. Skapino	Uruguay	The double burden of malnutrition and its agreement with body composition indicators in Latin American children and adolescents. The SAYCARE Study.



## POSTER PRESENTATIONS

WEDNESDAY AFTERNOON

### INTERVENTIONS AND POLICY

*(Poster Area B)*

<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B23	1	L. Ruiz	Mexico	Girls and Boys protagonists of food habit improvement through a school garden
B24	16	S. Nestory	Tanzania	Performance of biofortified climbing common bean genotypes ( <i>Phaseolus vulgaris</i> L.) across different locations in Tanzania.
B25	23	J. Rosenzweig	WFP	The cost of the Double Burden of Malnutrition: Social and economic impact. Case studies from Chile, Ecuador and Mexico
B26	25	A. Basnayake	Sri Lanka	Building a productive future generation through tailored nutrition interventions for adolescent girls.
B27	47	S. Constantinides	United States	Double burden of malnutrition: The role of framing in development of political priority and policy agendas for the rise in nutrition-related non-communicable diseases in Tamil Nadu, India
B28	55	A. Gupta	India	Community Based Intervention: Potential Impact of Low Cost Nutrient-rich Foods to Alleviate Malnutrition Among Children Under 5 Years of Age
B29	56	M. Alsumaie	Kuwait	Kuwait Nutritional Surveillance System (KNSS): A tool for monitoring effectiveness of the double burden diseases intervention programmes.
B30	63	R. Barham	Jordan	Impact of wheat flour fortification program on micronutrient status in Jordan (2002-2010)
B31	79	M. T. Yussif	Ghana	The Impact of School Feeding Programmes in reducing Iron Deficiency Anaemia among Primary School Children in Developing Countries: A Systematic Review and Meta-analysis of randomized Controlled trials.

<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B32	82	M. Ssenyondo	Uganda	Strengthening Multi-Sectoral Planning for Nutrition at Local Government Level: Experience from Karamoja sub-region in Northern Uganda.
B33	123	H. Aguenau	Morocco	The burden of iron and folic acid deficiency: case of the Impact study of the consumption of fortified wheat flour with elemental iron and folic acid on the nutritional status of women of childbearing age in Morocco
B34	137	J. Lako	Fiji	Major Policy and Programme Gaps and Improving Agri-Nutrition Outcomes in Fiji
B35	138	F. C. Onagan	Philippines	Sweetened Beverage Tax in the Philippines: A Department of Health Perspective on its Successful Passage
B36	143	S. Soofi	Pakistan	A cluster randomized controlled trial to assess the double burden of malnutrition among pregnant women and impact of nutrient-based interventions on nutritional status in infants at 6 months in Thatta and Sujawal districts of Sindh, Pakistan
B37	168	M. D. Ghoora	India	Micro-farmed greens: A viable approach to address food security and micronutrient malnutrition
B38	180	A. Haldipur	India	Micronutrient rich indigenous rice varieties as a potential solution for double burden of malnutrition – A systematic review
B39	182	K. Filippou	Greece	Nutritional evaluation of food security policies during the economic crisis. The case of Greece
B40	185	O. Ezekannagha	Nigeria	Proposing a conceptual framework for developing contextual solutions for double burden of malnutrition: Application of the mainstreaming nutrition initiative assessment
B41	186	S. Nagarajan	India	Agronomic biofortification of sprouts: A low cost intervention for addressing double burden of malnutrition
B42	218	M. Saber	Egypt	Impact of Obesity on Plasma Leptin and Effect of Auricular Acupuncture on Co-Morbidity in Childhood

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<i>Poster Board</i>	<i>No. of abstract</i>	<i>Name of Presenter</i>	<i>Designating Member State/Organization</i>	<i>Title of Abstract</i>
B43	242	M. A. Radouani	Morocco	Impact of an outreach support on the exclusive breastfeeding at the age of 6 months
B44	444	E. Grammatikaki	European Commission	Complementary feeding in the EU - national food-based dietary guidelines and food products available in the market

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International Conference on the Management of Spent Fuel from Nuclear Power Reactors: Learning from the Past, Enabling the Future, (CN-272), 24-28 June, Vienna, Austria

Scientific Forum, (CN-274), September; Vienna, Austria

International Conference on Climate Change and the Role of Nuclear Power (CN-275), 7-11 October; Vienna, Austria

International Symposium on Trends in Radiopharmaceuticals (ISTR-2019) (CN-276), 28 October-1 November; Vienna, Austria

International Conference on Effective Regulatory Systems for Nuclear and Radiation Safety (CN-270), November, TBD

International Conference on Research Reactors: Addressing Challenges and Opportunities to Ensure Effectiveness and Sustainability: (CN-277), 25-29 November, Buenos Aires, Argentina

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International Atomic Energy Agency

IAEA-CN-268

Vienna International Centre

PO Box 100

Wagramer Strasse 5

1400 Vienna, Austria

Tel.: +43 1 2600 (0) plus extension

Fax: +43 1 26007

Email: [official.mail@iaea.org](mailto:official.mail@iaea.org)



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